

# A Guide to the Literature and Distributions of Pacific Benthic Algae from Alaska to the Galapagos Islands

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FIFTEEN YEARS AGO the writer prepared the first "Guide to the marine algae of Pacific North America" (Dawson, 1946a). That first check list of the benthic flora of the region has become outdated by the results of extensive explorations of the Mexican coasts and islands from 1946 to 1952, and, subsequently, of the coasts of Central America and British Columbia. Doty's "Marine algae of Oregon" (1947) appeared as the first treatment of that region, and a number of studies of California algae have added considerable literature for that area. The fuller knowledge of the Mexican and Central American algae has shown such affinities with the flora of the Galapagos Archipelago that it has seemed appropriate to include the entire northeast Pacific in the present list, from the southern boundary of Ecuador and the Galapagos Islands to the Aleutian Islands, and including Clipperton Island and the Revillagigedo Archipelago, but not extending as far west as Hawaii or the Line Islands, for which an independent account is intended.

As before, the literature cited represents the references that provide an adequate key to all previous literature dealing with the occurrence of a given species along the Pacific American coasts. Thus, some 80 titles have been added to bring this expanded list up to date, but one will find himself frequently referred to larger bibliographies such as those of Smith (1944), Taylor (1945), Scagel (1957), Dawson (1954a), and others, for earlier or more exhaustive citations of literature.

For the sake of consistency, the distribution records are cited from north to south.

The classification is essentially according to that of Papenfuss (1955).

## SYSTEMATIC LIST

### PHYLUM CHLOROPHYCOPHYTA

#### ORDER VOLVOCALES

#### SUBORDER VOLVOCINEAE

#### FAM. POLYBLEPHARIDACEAE

*Stephanoptera gracilis* (Artari) G. M. Smith  
Scagel, 1957  
Northern Wash. to Monterey, Calif.

*Dunaliella salina* (Dunal) Teodoresco  
Scagel, 1957  
Northern Wash. to Monterey, Calif.

#### FAM. CHLAMYDOMONADACEAE

*Platymonas subcordiformis* (Wille) Hazen  
Smith, 1944  
Monterey, Calif.

#### SUBORDER CHLORODENDRINEAE

#### FAM. CHLORANGIACEAE

*Collinsiella tuberculata* Setchell & Gardner  
Scagel, 1957  
Southern British Columbia to Pacific Grove, Calif.

*Prasinocladus ascus* Proskauer  
Proskauer, 1950  
Near Santa Cruz, Calif.

*Prasinocladus lubricus* Kuckuck  
Proskauer, 1950; Scagel, 1957  
Friday Harbor, Wash., to Monterey, Calif.

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## ORDER ULOTRICHALES

## FAM. ULOTRICHACEAE

*Ulothrix flacca* (Dillwyn) Thuret, in Le Jolis

Scagel, 1957

St. Michael, Alaska, to Calif.

*Ulothrix implexa* Kützing

Scagel, 1957

Bering Sea to Monterey, Calif.

*Ulothrix laetevirens* (Kützing) Collins\*

Scagel, 1957

Unalaska, Alaska, to Calif.

*Ulothrix pseudoflacca* f. *minor* Wille

Setchell & Gardner, 1920

Sitka, Alaska

*Ulothrix pseudoflacca* f. *major* Wille

Setchell & Gardner, 1920

San Francisco, Calif.

*Ulothrix pseudoflacca* f. *maxima* Setchell & Gardner

Setchell & Gardner, 1920

San Francisco, Calif.

*Ulothrix zonata* (Weber & Mohr) Kützing

Doty, 1947

Harris State Park; Squaw Creek, Oreg.

*Hormidium rivulare* Kützing

Doty, 1947

Winchester Bay, Oreg.

## FAM. CHAETOPHORACEAE

*Bolbocoleon piliferem* Pringsheim

Setchell & Gardner, 1920; Dawson, 1945b

Southern Calif.

*Pilinia lunatae* f. *simplex* Thivy

Taylor, 1945

Panama City, Panama

*Pilinia maritima* f. *pacifica* Thivy

Taylor, 1945; Dawson, 1954

Isla Clarión, Revillagigedo Arch.; Galapagos Arch.

*Phaeophila dendroides* (Crouan) Batters

Dawson, 1954

Isla María Magdalena, Nayarit

*Phaeophila engleri* Reinke

Taylor, 1945; Dawson, 1954

Isla Clarión, Revillagigedo Arch., to Isla Taboga, Panamá; Galapagos Arch.

*Phaeophila polymorpha* Jao

Scagel, 1957

Northern Wash.

*Ectochaete perforans* Thivy

Taylor, 1945

Galapagos Arch.

*Zygomitus reticulatus* Bornet & Flahault

Taylor, 1945

Galapagos Arch.

*Entocladia cingens* Setchell & Gardner

Setchell & Gardner, 1920

San Diego, Calif.

*Entocladia codicola* Setchell & Gardner

Smith, 1944; Dawson, 1945b

Monterey Peninsula to La Jolla, Calif.

*Entocladia condensata* Setchell & Gardner

Dawson, 1954

Puerto Libertad; Isla San Esteban, Gulf of Calif.

*Entocladia mexicana* Setchell & Gardner

Dawson, 1954

Isla Ángel de la Guarda; La Paz, Gulf of Calif.

*Entocladia polysiphoniae* Setchell & Gardner

Dawson, 1954; Dawson, 1957 (as probably identical with *E. viridis*)

Guaymas; La Paz, Gulf of Calif.

*Entocladia viridis* Reinke

Scagel, 1957; Dawson, 1957  
Southern British Columbia to Monterey,  
Calif.; Galapagos Arch.

*Endophyton ramosum* Gardner

Doty, 1947  
Brookings, Oreg., to Monterey Peninsula,  
Calif.

*Pseudodictyon geniculatum* Gardner

Doty, 1947  
Sunset Bay, Oreg., to Pacific Grove, Calif.

*Internoretia freyeana* Setchell & Gardner

Scagel, 1957  
Friday Harbor, Wash.

*Ulvella setchellii* Dangeard

Smith, 1944; Hollenberg, 1948; Dawson,  
1954  
Pacific Grove, Calif., to Isla Guadalupe, Baja  
Calif.

*Pseudulvella applanata* Setchell & Gardner

Smith, 1944  
Carmel, Calif.

*Pseudulvella consociata* Setchell & Gardner

Doty, 1947  
South Bay, Oreg.; Alameda, Calif.

*Pseudulvella prostrata* (Gardner) Setchell & Gardner

Setchell & Gardner, 1920  
San Francisco, Calif.

*Pseudopringsheimia apiculata* Setchell & Gardner

Smith, 1944  
San Francisco; Monterey, Calif.

*Pringsheimiella marchantiae* (Setchell & Gardner) Schmidt

Schmidt, 1935; Dawson, 1954  
La Paz, Baja Calif.

*Pringsheimiella scutata* (Reinke) Schmidt & Petrack, in Schmidt

Dawson, 1960a  
Isla Guadalupe, Baja Calif.

## FAM. TRENTEPOHLIACEAE

*Trentepohlia odorata* var. *umbrina* (Kützing) Hariot

Setchell & Gardner, 1920  
San Pedro, Calif.

## FAM. MONOSTROMACEAE

*Monostroma areolatum* Setchell & Gardner

Setchell & Gardner, 1920  
Sitka, Alaska

*Monostroma dactyliferum* Taylor

Taylor, 1945  
Guayas, Ecuador

*Monostroma ecuadoreanum* Taylor

Taylor, 1945; Dawson, 1957b  
Golfo Dulce, Costa Rica?; Guayas, Ecuador

*Monostroma fractum* Jao

Scagel, 1957  
Turn I., Wash.

*Monostroma fuscum* (Postels & Ruprecht) Wittrock var. *fuscum*

Scagel, 1957  
Kukak Bay, Alaska, to northern Wash.

*Monostroma fuscum* var. *blyttii* (Areschoug) Collins

Scagel, 1957  
Southern British Columbia to northern Wash.

*Monostroma fuscum* var. *splendens* (Ruprecht) Rosenvinge

Scagel, 1957  
St. Paul I., Alaska, to southern British Columbia

*Monostroma grevillei* (Thuret) Wittrock var. *grevillei*

Setchell & Gardner, 1920  
Unalaska, Alaska

- Monostroma grevillei* var. *lubricum* (Kjellman)  
Collins  
Setchell & Gardner, 1920  
Sitka, Alaska
- Monostroma grevillei* var. *vahlii* (J. Agardh)  
Rosenvinge  
Setchell & Gardner, 1920; Okamura, 1933  
Aleutian Islands to Sitka, Alaska
- Monostroma orbiculatum* Thuret  
Setchell & Gardner, 1920  
Central Calif.
- Monostroma oxyspermum* (Kützing) Doty  
Scagel, 1957  
Southern British Columbia to southern Calif.
- Monostroma zostericola* Tilden  
Scagel, 1957  
Southern British Columbia to Monterey, Calif.
- Blidingia minima* (Nägeli) Kylin var. *minima*  
Scagel, 1957; Dawson, 1959c (as *Enteromorpha minima*)  
Dutch Harbor, Alaska, to Mexico
- Blidingia minima* var. *subsalsa* (Kjellman) Scagel  
Scagel, 1957  
Skagway, Alaska, to Chetco Cove, Oreg.
- FAM. ULVACEAE
- Enteromorpha acanthophora* Kützing  
Dawson, 1949a, 1954; Dawson, Neushul,  
Wildman, 1960a  
Bahía Tortuga, Baja Calif.; Gulf of Calif.
- Enteromorpha ahlnneriana* Bliding  
Doty, 1947  
North Bend, Oreg.
- Enteromorpha clathrata* (Roth) Greville  
Dawson, 1954 (as *E. plumosa*); Scagel, 1957;  
Dawson, 1959, 1959b  
Valdez, Alaska, to Carmel, Calif.; Isla Clarión,  
Revillagigedo Arch.; southern Gulf of  
Calif.; Clipperton I.
- Enteromorpha compressa* (Linnaeus) Greville  
Dawson, 1949a, 1954; Scagel, 1957; Dawson,  
1957b, 1959, 1959c  
Bering Sea to Costa Rica
- Enteromorpha crinita* (Roth) J. Agardh  
Taylor, 1945; Dawson, 1959c  
Valdes, Alaska, to San Diego, Calif.; Galapa-  
gos Arch.
- Enteromorpha groenlandica* (J. Agardh) Set-  
chell & Gardner  
Setchell & Gardner, 1920  
Bering Sea to Unalaska, Alaska
- Enteromorpha intestinalis* (Linnaeus) Link f.  
*intestinalis*  
Okamura, 1933; Scagel, 1957; Dawson, 1957c  
Kukak Bay, Alaska, to La Paz, Baja Calif.;  
Gulf of Calif.
- Enteromorpha intestinalis* f. *cylindracea* J.  
Agardh  
Scagel, 1957  
Popof I., Alaska, to Mexico
- Enteromorpha intestinalis* f. *maxima* J. Agardh  
Scagel, 1957  
Kukak Bay, Alaska, to Mexico
- Enteromorpha intestinalis* f. *clavata* J. Agardh  
Scagel, 1957  
Kukak Bay, Alaska, to Mexico
- Enteromorpha lingulata* J. Agardh  
Dawson, 1954, 1957b; Taylor, 1945  
Isla Guadalupe, Baja Calif., to Balboa, Canal  
Zone; Galapagos Arch.
- Enteromorpha linza* (Linnaeus) J. Agardh  
Dawson, 1954; Scagel, 1957; Dawson, 1959c  
(as *Ulva linza*)  
Orca, Alaska, to Mexico
- Enteromorpha marginata* J. Agardh  
Scagel, 1957  
Vancouver I., British Columbia, to Calif.

- Enteromorpha prolifera* (Müller) J. Agardh var. *prolifera*  
Dawson, 1954; Scagel, 1957  
Golovnin Bay, Alaska, to Central America
- Enteromorpha prolifera* var. *flexuosa* (Wulfen) Doty  
Doty, 1947; Setchell & Gardner, 1920 (as *E. flexuosa*); Taylor, 1945 (as *E. flexuosa*)  
Santa Barbara, Calif., to Puerto Parker, Costa Rica; Guayas, Ecuador
- Enteromorpha salina* var. *polyclados* Kützing  
Taylor, 1945  
San Francisco Bay, Calif.; Galapagos Arch.
- Enteromorpha torta* (Mertens) Reinbold  
Scagel, 1957  
Southern British Columbia and Wash.; San Diego, Calif.
- Enteromorpha tubulosa* (Kützing) Kützing  
Taylor, 1945; Dawson, 1954; Scagel, 1957  
Northern Wash. to Cabo Colnett, Baja Calif.; Galapagos Arch.
- Ulva angusta* Setchell & Gardner  
Smith, 1944; Dawson, 1954 (as *U. taeniata* and as *Enteromorpha angusta*), 1959c; Doty, 1947 (as *Enteromorpha angusta*)  
Oreg. to southern Calif.; Isla Guadalupe, Baja Calif.?.; Guaymas, Sonora
- Ulva californica* Wille  
Doty, 1947; Dawson, 1959c, 1960a  
Oreg.; Moss Beach, Calif.; southern Calif.; Isla Magdalena, Baja Calif.
- Ulva dactylifera* Setchell & Gardner  
Taylor, 1945; Dawson, 1954, 1959  
Southern Calif. to San Roque, Baja Calif.; southern Gulf of Calif.; Guayas, Ecuador ?; Galapagos Arch.?
- Ulva expansa* (Setchell) Setchell & Gardner  
Dawson, 1954; Scagel, 1957  
Southern British Columbia to Monterey, Calif.; La Paz, Baja Calif.?
- Ulva fasciata* Delile  
Farlow, 1902; Taylor, 1945  
Galapagos Arch.
- Ulva fenestrata* Postels & Ruprecht  
Scagel, 1957  
Sitka, Alaska, to Oreg.
- Ulva lactuca* Linnaeus  
Taylor, 1945; Dawson, 1954; Scagel, 1957; Dawson, 1959, 1959c  
Bering Sea to Guayas, Ecuador; Galapagos Arch.
- Ulva latissima* Linnaeus  
Scagel, 1957  
Juneau, Alaska, to northern Wash.
- Ulva lobata* (Kützing) Setchell & Gardner  
Taylor, 1945; Doty, 1947; Dawson, 1954, 1957, 1959b, 1959c  
Oreg. to San Diego, Calif.; Bahía Petatlán, Guerrero; Clipperton I.; Guayas, Ecuador; Galapagos Arch.
- Ulva rigida* C. Agardh  
Dawson, 1949a; Scagel, 1957; Dawson, 1954, 1959c  
Uyak Bay, Alaska, to La Paz, Baja Calif.; Gulf of Calif.
- Ulva spinulosa* Okamura & Segawa  
Dawson, 1960a  
Puerto Guatulco, Oaxaca
- Ulva stenophylla* Setchell & Gardner  
Doty, 1947  
Chetco Cove, Oreg. to Big Sur, Calif.
- Ulva taeniata* (Setchell) Setchell & Gardner  
Doty, 1947; Dawson, 1954, 1959c  
Coos Bay, Oreg., to Point Conception, Calif. (more southern records are probably all *U. angusta*)
- Ulva vexata* Setchell & Gardner  
Doty, 1947 (as *Enteromorpha vexata*)  
Oreg.; San Francisco, Calif.

*Percursaria percura* (C. Agardh) Rosenvinge  
Scagel, 1957  
Amaknak I., Alaska, to San Francisco Bay,  
Calif.

## ORDER SCHIZOGONIALES

## FAM. PRASIOACEAE

*Schizogonium murale* f. *uniseriatum* Jao  
Scagel, 1957  
Dinner Point, Wash.

*Prasiola borealis* Reed  
Setchell & Gardner, 1920  
Unalaska, Kodiak, and Baranof islands, Alaska

*Prasiola calophylla* (Carmichael) Meneghini  
Scagel, 1957  
Whidbey I., Wash.

*Prasiola delicatula* Setchell & Gardner  
Setchell & Gardner, 1920  
Sitka, Alaska

*Prasiola linearis* Jao  
Scagel, 1957  
Argyle Lagoon, Wash.

*Prasiola meridionalis* Setchell & Gardner  
Scagel, 1957; Silva, 1957  
Friday Harbor, Wash., to Carmel, Calif.; Santa  
Cruz I., Calif.

*Rosenvingiella constricta* (Setchell & Gardner)  
Silva  
Silva, 1957; Scagel, 1957  
Friday Harbor, Wash.; Tomales Point; Mon-  
terey; Santa Cruz I., Calif.

*Rosenvingiella polyrhiza* (Rosenvinge) Silva  
Silva, 1957  
Amaknak I., Alaska

## ORDER CHLOROCOCCALES

## FAM. CHLOROCOCCACEAE

*Chlorochytrium inclusum* Kjellman  
Scagel, 1957  
Sitka, Alaska, to Camel, Calif.

*Chlorochytrium porphyrae* Setchell & Gardner  
Scagel, 1957  
Cape Flattery, Wash.; San Francisco; Monte-  
rely Peninsula, Calif.

*Chlorochytrium schmitzii* Rosenvinge  
Setchell & Gardner, 1920  
Kodiak I., Alaska

*Codiolum penicilliforme* (Roth) Silva  
Scagel, 1957 (as *Codiolum gregarium*); Silva,  
1957a (as the sporophyte generation of  
*Urospora penicilliformis*)  
Southern British Columbia to northern Wash.

*Codiolum petrocelidis* Kuckuck  
Scagel, 1957; Fan, 1959 (Fan, and also Hol-  
lenberg, 1958, indicate this as the sporo-  
phyte generation of *Spongomorpha coalita*)  
Northern Wash. to Monterey, Calif.

*Codiolum pusillum* f. *subsessile* Jao  
Scagel, 1957  
Brown I., Wash.

## FAM. GOMONTIACEAE

*Gomontia polyrhiza* (Lagerheim) Bornet & Fla-  
hault  
Scagel, 1957  
Neah Bay, Wash., to Monterey, Calif.

## ORDER CLADOPHORALES

## FAM. CLADOPHORACEAE

*Rhizoclonium crassipellitum* var. *robustum* G.  
S. West  
Taylor, 1945  
Galapagos Arch.

*Rhizoclonium implexum* (Dillwyn) Kützing  
Taylor, 1945 (as *R. riparium* var. *implexum*);  
Scagel, 1957  
St. Michael I., Alaska, to Carmel, Calif.; Gala-  
pagos Arch.

*Rhizoclonium kernerii* Stockmayer  
Dawson, 1959; Scagel, 1957  
Victoria, British Columbia

- Rhizoclonium kochianum* Kützing  
Taylor, 1945 (as *R. kernerii*); Dawson, 1959, 1960a  
Puerto Escondido, Gulf of Calif.; Isla Clarión, Revillagigedo Arch.; Isla Jicarón, Panamá
- Rhizoclonium rhizophilum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Rhizoclonium riparium* (Roth) Harvey  
Scagel, 1957  
Unalaska, Alaska, to southern Calif.; Galapagos Arch.
- Rhizoclonium tortuosum* (Dillwyn) Kützing  
Scagel, 1957  
Kodiak Bay, Alaska, to Carmel, Calif.
- Lola lubrica* (Setchell & Gardner) A. & G. Hamel  
Dawson, 1954; Scagel, 1957  
Northern Wash. to Puerto Culebra, Costa Rica
- Urospora doliifera* (Setchell & Gardner) Doty  
Doty, 1947  
Chetco Cove, Oreg.; San Francisco, Calif.
- Urospora grandis* Kylin  
Scagel, 1957  
Unalaska, Alaska, to Oreg.
- Urospora penicilliformis* (Roth) Areschoug  
Dawson, 1949 (as *Chaetomorpha catalinae*); Dawson, 1954d; Scagel, 1957; Silva (1957a) treats this as *Codiolum penicilliformis*, the alternate, gametophyte generation of *Codiolum gregarium*  
Bering Sea to southern Calif.
- Urospora sphaerulifera* (Setchell & Gardner) Scagel  
Scagel, 1957  
Whidbey I., Wash.
- Urospora tetraciliata* (Frye & Zeller) Scagel  
Scagel, 1957  
San Juan County, Wash.
- Urospora vancouveriana* (Tilden) Scagel  
Scagel, 1957  
Oak Bay, Vancouver I., British Columbia
- Urospora wormskioldii* (Mertens) Rosenvinge  
Scagel, 1957  
Southern British Columbia to Gualala, Calif.
- Chaetomorpha aerea* (Dillwyn) Kützing  
Dawson, 1954, 1959c  
Santa Cruz to San Diego, Calif.; northern Gulf of Calif.
- Chaetomorpha antennina* (Bory) Kützing  
Dawson, 1945b, 1954, 1954c, 1959, 1959b; Dawson & Beaudette, 1960  
La Jolla, Calif., to Guayas, Ecuador; Clipperton I.; Galapagos Arch.
- Chaetomorpha atrovirens* Taylor, approx.  
Dawson, 1954  
Isla Guadalupe
- Chaetomorpha bangioides* Dawson  
Dawson, 1954, 1959  
Isla Patos; Puerto Escondido, Gulf of Calif.
- Chaetomorpha brachygonia* var. *crassipellita* Taylor  
Taylor, 1945  
Galapagos Arch.
- Chaetomorpha californica* Collins  
Setchell & Gardner, 1920  
Laguna Beach to La Jolla, Calif.
- Chaetomorpha cannabina* (Areschoug) Kjellman  
Scagel, 1957  
Norton Sound, Alaska, to Puget Sound, Wash.
- Chaetomorpha clavata* (C. Agardh) Kützing  
Dawson, 1954  
Punta Descanso; Cabo Colnett, Baja Calif.
- Chaetomorpha crassa* (C. Agardh) Kützing  
Dawson, 1954  
Islas San Benitos; Bahía Magdalena, Baja Calif.

- Chaetomorpha exposita* (Børgesen) Dawson  
Dawson, 1954c  
Isla San Benedicto, Revillagigedo Arch.
- Chaetomorpha gracilis* Kützing  
Dawson, 1954c  
Isla San Benedicto, Revillagigedo Arch.
- Chaetomorpha indica* Kützing  
Dawson, 1960a  
Isla del Rey, Panamá
- Chaetomorpha linoides* (C. Agardh) Kützing  
Dawson, 1954  
Cabo San Lucas, Baja Calif.; Mazatlán, Sinaloa
- Chaetomorpha linum* (Müller) Kützing  
Dawson, 1954; Taylor, 1945; Dawson, 1959  
Isla Cedros, Baja Calif.; Isla Carmén, Gulf of Calif.; Galapagos Arch.
- Chaetomorpha melagonium* (Weber & Mohr) Kützing  
Setchell & Gardner, 1920; Okamura, 1933  
Aleutian Islands to Kodiak I., Alaska
- Chaetomorpha pachynema* Montagne  
Dawson, 1954  
Punta Palmilla, Baja Calif.
- Chaetomorpha tenuissima* Jao  
Scagel, 1957  
Northern Wash.
- Chaetomorpha torta* (Farlow) McClatchie  
Setchell & Gardner, 1920; Dawson, 1945b, 1949a, 1954, 1959c; Dawson, Neushul, Wildman, 1960  
Southern Calif. to Isla Magdalena, Baja Calif.
- Cladophora albida* (Hudson) Kützing  
Scagel, 1957; Dawson, 1954, 1959, 1960a  
Southern British Columbia to northern Wash.; San Pedro, Calif.; Gulf of Calif.; Isla Grande, Guerrero
- Cladophora amphibia* Collins  
Setchell & Gardner, 1920  
San Francisco Bay, Calif.
- Cladophora bertolonii* var. *hamosa* (Kützing) Ardissona  
Smith, 1944  
Pacific Grove, Calif.
- Cladophora crystallina* (Roth) Kützing  
Dawson, 1960a  
Bahía Culebra, Costa Rica
- Cladophora delicatula* Montagne  
Doty, 1947; Dawson, 1954  
Oreg. to San Diego, Calif.; Rio Mayo, Sonora
- Cladophora elmorei* Dawson  
Dawson, 1949  
San Clemente Island, Calif.
- Cladophora flexuosa* (Griffiths) Harvey  
Scagel, 1957  
Annettee I., Alaska, to San Diego, Calif.
- Cladophora glaucescens* (Griffiths) Harvey  
Scagel, 1957  
Nanaimo, British Columbia, to Oakland, Calif.
- Cladophora gracilis* (Griffiths) Kützing f. *gracilis*  
Scagel, 1957  
Sitka, Alaska; Neah Bay, Wash.
- Cladophora gracilis* f. *expansa* Farlow  
Dawson, 1954  
Isla Clarión, Revillagigedo Arch.
- Cladophora graminea* Collins  
Smith, 1944; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Santa Cruz, Calif., to Isla Magdalena, Baja Calif.; Guaymas, Sonora
- Cladophora hemispherica* Gardner  
Doty, 1947; Smith, 1944; Dawson, 1959c  
Oreg. to northern Los Angeles Co., Calif.
- Cladophora hesperia* Setchell & Gardner  
Dawson, 1954, 1954d  
Vicinity of Isla Cedros, Baja Calif.; Kino, Sonora, to Mazatlán, Sinaloa



- Cladophora butchinsiae* (Dillwyn) Kützing var. *butchinsiae*  
Scagel, 1957  
Vancouver I., British Columbia
- Cladophora butchinsiae* var. *distans* (C. Agardh) Kützing  
Scagel, 1957  
Southern British Columbia
- Cladophora inserta* Dickie f.  
Dawson, 1957  
Isla San Benedicto, Revillagigedo Arch.
- Cladophora laetevirens* (Dillwyn) Kützing  
Scagel, 1957  
Vancouver, British Columbia, and Straits of Juan de Fuca, Wash.
- Cladophora macdougalii* Howe  
Dawson, 1954  
Bahía San Felipe, Gulf of Calif.
- Cladophora magdalenae* Harvey  
Dawson, 1954  
Scammon Lagoon, Baja Calif.
- Cladophora microcladioides* Collins f. *microcladioides*  
Dawson, 1954; Scagel, 1957; Dawson, 1959c  
Southern British Columbia to Bahía Viscaíno, Baja Calif.; Gulf of Calif.
- Cladophora microcladioides* f. *stricta* Collins  
Setchell & Gardner, 1920  
San Diego, Calif.
- Cladophora ovoidea* Kützing  
Smith, 1944  
Santa Cruz to Monterey, Calif.
- Cladophora panamensis* Taylor  
Taylor, 1945  
Bahía Honda, Panamá
- Cladophora perpusilla* Skottsberg & Levring  
Dawson, 1954c, 1957, 1959b, 1960a  
Isla San Benedicto, Revillagigedo Arch.; Puerto Guatulco, Oaxaca; Clipperton I.; Galapagos Arch.
- Cladophora prolifera* (Roth) Kützing  
Taylor, 1945; Dawson, 1954, 1957b  
Scammon Lagoon, Baja Calif.; Costa Rica; Guayas, Ecuador; Galapagos Arch.
- Cladophora rudolphiana* (C. Agardh) Kützing f. *rudolphiana*  
Dawson, 1954, 1957b  
Guaymas, Sonora; Golfo de Nicoya, Costa Rica
- Cladophora rudolphiana* f. *eramosa* Gardner  
Setchell & Gardner, 1920; Dawson, 1954  
San Francisco Bay, Calif.; Guaymas, Sonora
- Cladophora socialis* Kützing  
Dawson, 1957b, 1959b  
Golfo de Nicoya, Costa Rica; Clipperton I.
- Cladophora stimpsonii* Harvey  
Scagel, 1957  
Southern British Columbia to southern Calif.
- Cladophora tiburonensis* Dawson  
Dawson, 1954  
Isla Tiburón, Gulf of Calif.; Mazatlán, Sinaloa
- Cladophora trichotoma* (C. Agardh) Kützing f. *trichotoma*  
Dawson, 1954; Scagel, 1957; Dawson, 1959c  
Southern British Columbia to Isla Cedros, Baja Calif.; La Paz, Gulf of Calif. ?
- Cladophora trichotoma* f. *elongata* Collins  
Setchell & Gardner, 1920  
Point Carmel, Calif.
- Cladophora utriculosa* Kützing  
Dawson, 1959, 1960a  
Isla San Francisco, Gulf of Calif.; Bahía Chachahua, Oaxaca; Bahía Potrero Grande, Costa Rica
- Spongomorpha arcta* (Dillwyn) Kützing  
Scagel, 1957  
Bering Sea to Puget Sound, Wash.

*Spongomorpha coalita* (Ruprecht) Collins  
Scagel, 1957; Fan, 1959 (Note: Hollenberg, 1958, and Fan, 1959, show this to be the gametophyte generation of *Codiolum petrocelidis*)  
Unalaska, Alaska, to Carmel, Calif.

*Spongomorpha conjuncta* Taylor  
Taylor, 1945  
Galapagos Arch.

*Spongomorpha duriuscula* (Ruprecht) Collins  
Okamura, 1933; Doty, 1947  
Aleutian Islands to Karluk, Alaska; Oreg.

*Spongomorpha hystrix* Stroemfelt  
Setchell & Gardner, 1920; Okamura, 1933  
Agattu I. to Sitka, Alaska

*Spongomorpha mertensii* (Ruprecht) Setchell & Gardner  
Scagel, 1957  
Unalaska, Alaska, to San Francisco, Calif.

*Spongomorpha saxatilis* (Ruprecht) Collins var. *saxatilis*  
Doty, 1947  
Alaska to San Francisco, Calif.

*Spongomorpha saxatilis* var. *chamissonis* (Ruprecht) Collins  
Scagel, 1957  
Unalaska, Alaska, to Wash.

*Spongomorpha spinescens* Kützing  
Scagel, 1957  
Unalaska, Alaska, to Coos Bay, Oreg.

## FAM. ANADYOMENACEAE

*Valoniopsis hancockii* Dawson  
Dawson, 1954  
Isla Ángel de la Guarda, Gulf of Calif.

*Valoniopsis pachynema* (Martens) Børgesen  
Dawson, 1954, 1959  
Scammon Lagoon, Baja Calif.; Isla Ángel de la Guarda to Isla Espíritu Santo, Gulf of Calif.; Isla Isabel, Nayarit

*Microdictyon palmeri* Setchell  
Dawson, 1954  
Isla Guadalupe, Baja Calif.

## ORDER SIPHONOCLADALES

## FAM. VALONIACEAE

*Dictyosphaeria australis* Setchell  
Dawson, 1954  
Cabeza Ballena, Baja Calif.; Isla Clarión, Revillagigedo Arch.

*Dictyosphaeria versluysii* Weber van Bosse  
Dawson, 1954, 1954c  
Isla Guadalupe, Baja Calif.; Isla Espíritu Santo, Gulf of Calif.; Revillagigedo Arch.

## FAM. SIPHONOCLADACEAE

*Siphonocladus pusilloides* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.

*Ernodesmis verticillata* (Kützing) Børgesen  
Dawson, 1954, 1959  
Cabeza Ballena, Baja Calif. del Sur; Isla Carmen; La Paz, Gulf of Calif.

*Cladophoropsis fasciculata* (Kjellman) Børgesen  
Dawson, 1958, 1959c  
Lechuza Point; Dana Point, Calif.

*Cladophoropsis gracillima* Dawson  
Dawson, 1954, 1957b, 1960a  
Punta Palmilla, Baja Calif.; Costa Rica

*Cladophoropsis membranacea* (C. Agardh) Børgesen  
Dawson, 1960a ("Cladophora" by error)  
Punta Cono, Baja Calif.

*Cladophoropsis* (?) *robusta* Setchell & Gardner  
Dawson, 1954 (as *Willeella mexicana* in part), 1957b (as *Willeella mexicana*), 1959  
Southern Gulf of Calif.

## FAM. BOODLEACEAE

*Struvea anastomosans* (Harvey) Piccone

Dawson, 1954, 1957b

Acapulco, Guerrero; Costa Rica

*Boodlea composita* (Harvey & Hooker, f.)

Brand

Taylor, 1945; Dawson, 1954

Isla María Magdalena, Nayarit; Guayas, Ecuador

*Boodlea siamensis* Reinbold

Dawson, 1957b

Golfo Dulce, Costa Rica

## ORDER SIPHONALES

## FAM. DERBESIACEAE

*Halicystis ovalis* (Lyngbye) AreschougScagel, 1957; Dawson, Neushul, Wildman, 1960, 1960a (Note: this is generally recognized as the gametophyte phase of *Derbesia marina*)

Silver Bay, Alaska, to Punta Eugenio, Baja Calif.

*Derbesia attenuata* Dawson

Dawson, 1959b, 1960a

Clipperton I.; Isla Brincanco, Panamá

*Derbesia hollenbergii* Taylor

Taylor, 1945; Dawson, 1959

Isla Carmén, Gulf of Calif.; Galapagos Arch.

*Derbesia lamourouxii* (J. Agardh) Solier

Dawson, 1954

Near Tijuana; Cabo Colnett, Baja Calif.

*Derbesia longifructa* Taylor

Taylor, 1945

Guayas, Ecuador

*Derbesia marina* (Lyngbye) KjellmanScagel, 1957 (Note: this is generally recognized as the sporophyte phase of *Halicystis ovalis*)

Sitka, Alaska, to La Jolla, Calif.

*Derbesia pacifica* Jao

Scagel, 1957

Turn I., Wash.

*Derbesia prolifica* Taylor

Taylor, 1945

Galapagos Arch.

*Derbesia tenuissima* (De Notaris) Crouan & Crouan ?

Dawson, 1954

Campo Malarrimo, Bahía Vizcaino, Baja Calif.

*Derbesia vaucheriaeformis* (Harvey) J. Agardh

Scagel, 1957

Yakutat Bay, Alaska, to northern Wash.

## FAM. CAULERPACEAE

*Caulerpa cupressoides* var. *lycopodium* near f. *elegans* Weber van Bosse

Taylor, 1945

Isla Gorgona, Colombia

*Caulerpa pinnata* f. *pectinata* (Kützting) Weber van Bosse

Dawson, 1954

Isla Ángel de la Guarda, Gulf of Calif.

*Caulerpa racemosa* var. *clavifera* f. *macrophysa* (Kützting) Weber van Bosse

Dawson, 1954

Isla Guadalupe, Baja Calif.

*Caulerpa racemosa* var. *laetevirens* (Montagne) Weber van Bosse f. *laetevirens*

Dawson, 1954

Isla Guadalupe, Baja Calif.; Isla Clarión, Revillagigedo Arch.

*Caulerpa racemosa* var. *laetevirens* f. *cylindraceae* (Sonder) Weber van Bosse

Dawson, 1954

Isla Guadalupe, Baja Calif.; Clipperton I.

*Caulerpa racemosa* var. *occidentalis* (C. Agardh) Børgesen

Taylor, 1945; Dawson, 1954

Isla Clarión, Revillagigedo Arch.; Galapagos Arch.

*Caulerpa racemosa* var. *turbinata* (J. Agardh)  
Eubank

Dawson, 1954, 1959

Southern Gulf of Calif. to Mazatlán, Sinaloa

*Caulerpa racemosa* var. *uvifera* (Turner) Weber  
van Bosse

Dawson, 1954; Taylor, 1945

Isla Espíritu Santo, Gulf of Calif.; Galapagos  
Arch.

*Caulerpa sertularioides* (Gmelin) Howe

Dawson, 1954, 1959

Puerto Escondido to La Paz, Gulf of Calif.;  
Tangola-Tangola, Oaxaca

*Caulerpa vanbosseae* Setchell & Gardner

Dawson, 1954, 1959; Dawson, Neushul, Wild-  
man, 1960a

Vicinity of Bahía Magdalena, Baja Calif.;  
Isla Ángel de la Guarda to Isla Espíritu  
Santo, Gulf of Calif.

#### FAM. BRYOPSIDACEAE

*Pseudobryopsis hainanensis* Tseng

Dawson, 1954c

Isla San Benedicto, Revillagigedo Arch.

*Bryopsis corticulans* Setchell

Dawson, 1954; Scagel, 1957; Dawson, 1959c  
Southern British Columbia to La Jolla, Calif.;

Islas San Benitos, Baja Calif.

*Bryopsis galapagensis* Taylor

Taylor, 1945; Dawson, 1954

Revillagigedo Arch.; Galapagos Arch.; Isla  
Gorgona, Colombia

*Bryopsis hypnoides* Lamouroux

Dawson, 1954; Scagel, 1957; Dawson, 1959c  
Southern British Columbia to San Pedro,  
Calif.; La Paz, Gulf of Calif.; Panama City,  
Panamá

*Bryopsis muscosa* Lamouroux

Dawson, 1954, 1959

Pacific Baja Calif.; southern Gulf of Calif.;  
Salina Cruz, Oaxaca

*Bryopsis pennata* Lamouroux

Dawson, 1954 (as *B. pennatula* and as *B.*  
*plumosa* var. *pennata*), 1957b, 1959

Isla Tiburón, Gulf of Calif., to Golfo de Ni-  
coya, Costa Rica

*Bryopsis pennatula* J. Agardh

Taylor, 1945; Dawson, 1954. (Note: probably  
equal to *B. pennata* according to Dawson,  
1959)

Guerrero; Oaxaca; Galapagos Arch.

*Bryopsis plumosa* (Hudson) C. Agardh

Scagel, 1957

Southern British Columbia to northern Wash.

#### FAM. CODIACEAE

*Boodleopsis verticillata* Dawson

Dawson, 1960a

Isla del Rey, Panamá

*Chlorodesmis bildebrandtii* A. Gepp & E. Gepp

Dawson, 1957b, 1959

Southern Gulf of Calif.; Costa Rica

*Chlorodesmis mexicana* Taylor

Taylor, 1945; Dawson, 1954

Isla Guadalupe, Baja Calif., to Tangola-Tan-  
gola, Oaxaca; Guayas, Ecuador; Galapagos  
Arch.

*Geppella decussata* Dawson

Dawson, 1959

Isla San Francisco, Gulf of Calif.

*Codium amplivesiculatum* Setchell & Gardner

Dawson, 1954, 1959

Isla Pond; Puerto Escondido, Gulf of Calif.

*Codium anastomosans* Setchell & Gardner

Dawson, 1954 (Note: probably equal to *C.*  
*simulans*)

Isla Ángel de la Guarda to Isla Tiburón, Gulf  
of Calif.

*Codium cervicorne* Setchell & Gardner

Taylor, 1945

Galapagos Arch.

- Codium cuneatum* Setchell & Gardner  
Dawson, 1954; Dawson, Neushul, Wildman, 1960, 1960a  
San Pedro, Calif., to southern Baja Calif; Gulf of Calif.
- Codium decorticatum* (Woodward) Howe  
Dawson, 1954  
Isla Clarión, Revillagigedo Arch.
- Codium dichotomum* (Hudson) S. F. Gray  
Taylor, 1945; Dawson, 1954  
Isla Guadalupe; Isla Cedros to Isla Magdalena, Baja Calif.; Mazatlán, Sinaloa; Galapagos Arch.
- Codium fernandezianum* Setchell  
Taylor, 1945; Dawson, 1954  
Bahía Santa María, Baja Calif.; Guayas, Ecuador
- Codium foveolatum* Howe, prox.  
Taylor, 1945  
Galapagos Arch.
- Codium fragile* (Suringar) Hariot  
Scagel, 1957; Dawson, 1954, 1959c  
Sitka, Alaska, to Bahía Asunción, Baja Calif.
- Codium geppii* O. C. Schmidt, complex  
Dawson, 1959b  
Clipperton I.
- Codium hubbsii* Dawson  
Dawson, 1954; Dawson, Neushul, Wildman, 1960  
Santa Catalina I., Calif., to Bahía Asunción, Baja Calif.; Isla Guadalupe, Baja Calif.
- Codium isabelae* Taylor  
Dawson, 1954  
Isla Clarión, Revillagigedo Arch.; La Paz, Baja Calif.
- Codium johnstonei* Silva  
Dawson, 1954  
Santa Cruz I., Calif. to Islas Coronados, Baja Calif.
- Codium longiramosum* Setchell & Gardner  
Dawson, 1954  
Isla Pond, Gulf of Calif.; Isla Clarión, Revillagigedo Arch.; Bahía Petatlán, Guerrero
- Codium macdougallii* Dawson  
Dawson, 1954  
Puerto Libertad, Sonora
- Codium magnum* Dawson  
Dawson, 1954  
Bahía San Quintín, Baja Calif.
- Codium palmeri* Dawson  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Codium santamariae* Taylor  
Taylor, 1945  
Galapagos Arch.; Guayas, Ecuador
- Codium setchellii* Gardner  
Dawson, 1954; Scagel, 1957; Dawson, 1957, 1959c; Dawson, Neushul, Wildman, 1960, 1960a  
Sitka, Alaska, to Punta Abreojos, Baja Calif.; Rocas Alijos
- Codium simulans* Setchell & Gardner  
Dawson, 1954, 1959  
Ensenada ?; Isla Guadalupe ?; Punta Santa Rosalía, Baja Calif.; Gulf of Calif.; Isla Clarión, Revillagigedo Arch.
- Codium ritteri* Setchell & Gardner  
Scagel, 1957  
Kodiak I., Alaska, to Vancouver I., British Columbia
- Halimeda discoidea* Decaisne  
Dawson, 1954, 1957b, 1959  
Isla Magdalena, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif., to Golfo Dulce, Costa Rica
- Halimeda opuntia* (Linnaeus) Lamouroux  
Dawson, 1954  
Isla Guadalupe, Baja Calif.; Isla Clarión, Revillagigedo Arch.

*Halimeda tuna* (Solander) Lamouroux

Dawson, 1954

Isla Clarión, Revillagigedo Arch.

## ORDER DASYCLADALES

## FAM. DASYCLADACEAE

*Acetabularia moebii* Solms-Laubach

Dawson, 1960a

Revillagigedo Arch.; Bahía Carrizal, Colima

*Neomeris annulata* Dickie

Dawson, 1959

Isla Partida, southern Gulf of Calif.

*Neomeris vanbosseae* Howe

Dawson, 1954

Isla Socorro, Revillagigedo Arch.

## PHYLUM CHRYSOPHYCOPHYTA

## ORDER VAUCHERIALES

## FAM. PHYLLOSIPHONACEAE

*Ostreobium quekettii* Bornet & Flahault

Scagel, 1957

Puget Sound, Wash.

*Ostreobium reineckeii* Bornet

Dawson, 1954

Isla Guadalupe, Baja Calif.; Isla Clarión, Revillagigedo Arch.

## FAM. VAUCHERIAEAE

*Vaucheria litoria* Bang & C. Agardh

Scagel, 1957

Northern Wash.

*Vaucheria longicaulis* Hoppaugh

Hoppaugh, 1930; Taylor, 1952

Elkhorn Slough, Monterey Co., Calif.

*Vaucheria thuretii* Woronin

Doty, 1947

Charleston, Oreg.

## PHYLUM PHAEOPHYCOPHYTA

## ORDER ECTOCARPALES

## FAM. ECTOCARPACEAE

*Pylaiella gardneri* Collins

Smith, 1944

San Francisco to Carmel, Calif.

*Pylaiella littoralis* (Linnaeus) Kjellman

Scagel, 1957

Bering Sea to San Pedro, Calif.

*Pylaiella tenella* Setchell & Gardner

Scagel, 1957

Neah Bay, Wash.; Monterey, Calif.

*Pylaiella unilateralis* Setchell & Gardner

Setchell &amp; Gardner, 1925; Doty, 1947

Coos Bay, Oreg.

*Pylaiella washingtoniensis* Jao

Scagel, 1957

Northern Wash.

(Note: Hamel (1939) and others treat some species of *Ectocarpus* under the separate genera *Giffordia* and *Feldmannia*)*Ectocarpus acuminatus* Saunders

Smith, 1944

Pacific Grove to San Pedro, Calif.

*Ectocarpus acutus* Setchell & Gardner var. *acutus*

Scagel, 1957

Puget Sound to Carmel, Calif.

*Ectocarpus acutus* var. *haplogloiae* Doty

Doty, 1947; Scagel, 1957

Neah Bay, Wash.; Oreg.; Moss Beach, Calif.

*Ectocarpus affinis* Setchell & Gardner

Setchell &amp; Gardner, 1925

Sitka, Alaska

*Ectocarpus breviarticulatus* J. Agardh

Dawson, 1954, 1954c

Isla Guadalupe, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.; San Agustín, Oaxaca

- Ectocarpus bryantii* Setchell & Gardner  
Dawson, 1954  
La Paz, Gulf of Calif.
- Ectocarpus chantransioides* Setchell & Gardner  
Setchell & Gardner, 1925; Hollenberg, 1948  
Santa Monica; Corona del Mar, Calif.
- Ectocarpus chitonicola* Saunders  
Smith, 1944  
Monterey Peninsula, Calif.
- Ectocarpus commensalis* Setchell & Gardner  
Smith, 1944; Dawson, 1954  
Monterey Peninsula, Calif.; Campo Malarimo, Bahía Vizcaino, Baja Calif.
- Ectocarpus confervoides* (Roth) LeJolis f. *confervoides*  
Coe, 1932; Scagel, 1957  
Yakutat Bay, Alaska, to La Jolla, Calif.
- Ectocarpus confervoides* f. *parvus* (Saunders)  
Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco to San Diego, Calif.
- Ectocarpus confervoides* f. *typicus* Kuckuck  
Setchell & Gardner, 1925; Doty, 1947  
Juneau, Alaska, to San Francisco, Calif.
- Ectocarpus corticulatus* Saunders  
Scagel, 1957  
Popof I., Alaska, to San Pedro, Calif.
- Ectocarpus cylindricus* Saunders f. *cylindricus*  
Coe, 1932; Hollenberg, 1948; Scagel, 1957  
Northern Wash. to La Jolla, Calif.
- Ectocarpus cylindricus* f. *codiophilus* Setchell & Gardner  
Smith, 1944; Dawson, 1945*b*, 1960*a*  
Monterey Peninsula; La Jolla, Calif.; Punta Thurloe, Baja Calif.
- Ectocarpus dimorphus* Silva  
Dawson, 1954 (as *E. variabilis*); Silva, 1957;  
Scagel, 1957  
Hope I., British Columbia, to Bahía Asunción, Baja Calif.; Gulf of Calif.
- Ectocarpus duchassaingianus* Grunow  
Dawson, 1954  
Isla Guadalupe, Baja Calif.; Isla María Magdalena, Nayarit; Isla Socorro, Revillagigedo Arch.
- Ectocarpus ellipticus* Saunders  
Smith, 1944  
Monterey Peninsula, Calif.
- Ectocarpus ensenadanus* Gardner  
Dawson, 1954  
Ensenada, Baja Calif.
- Ectocarpus eramosus* Setchell & Gardner  
Setchell & Gardner, 1925  
Tomales Bay, Calif.
- Ectocarpus flagelliferus* Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- Ectocarpus flocculiformis* Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1954  
La Jolla, Calif.; Isla Cedros; Campo Malarimo, Baja Calif.
- Ectocarpus fructuosus* Setchell & Gardner  
Setchell & Gardner, 1925  
Moss Beach, Calif.
- Ectocarpus globifer* Kützing  
Setchell & Gardner, 1925  
San Pedro to La Jolla, Calif.
- Ectocarpus gonodioides* Setchell & Gardner  
Smith, 1944; Dawson, 1954  
Carmel, Calif.; Isla Smith, Gulf of Calif.
- Ectocarpus granulosooides* Setchell & Gardner  
var. *granulosooides*  
Smith, 1944; Dawson, 1945*b*  
Monterey to La Jolla, Calif.
- Ectocarpus granulosooides* var. *pygmaeus* Setchell & Gardner  
Dawson, 1954  
Isla San Martín, Baja Calif.

- Ectocarpus granulosus* (J. E. Smith) C. Agardh  
Coe, 1932; Dawson, 1954; Scagel, 1957; Dawson, 1959c, 1960a  
Southern British Columbia to Punta Thurloe, Baja Calif.
- Ectocarpus hancockii* Dawson  
Dawson, 1954  
Isla Turner, Gulf of Calif.
- Ectocarpus hemisphericus* Saunders f. *hemisphericus*  
Setchell & Gardner, 1925  
San Pedro to San Diego, Calif.
- Ectocarpus hemisphericus* f. *minor* Saunders  
Setchell & Gardner, 1925; Dawson, 1945b  
Southern Calif.
- Ectocarpus indicus* Sonder  
Dawson, 1959b  
Clipperton I.
- Ectocarpus irregularis* Kützing  
Dawson, 1954c, 1959b  
Isla San Benedicto, Revillagigedo Arch.; Clipperton I.?
- Ectocarpus isopodicola* Dawson  
Dawson, 1946  
Newport Bay, Calif.
- Ectocarpus luteolus* Sauvageau  
Setchell & Gardner, 1925  
San Francisco, Calif.
- Ectocarpus mesogloiae* Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- Ectocarpus mitchellae* Harvey  
Setchell & Gardner, 1925; Dawson, 1954, 1959, 1959c  
Southern Calif. to San Jose del Cabo, Baja Calif.; Punta Peñasco, Sonora; southern Gulf of Calif. ?
- Ectocarpus mucronatus* Saunders  
Scagel, 1957; Dawson, 1954, 1959c  
Vancouver I., British Columbia, to San Pedro, Calif.; Punta Peñasco, Sonora
- Ectocarpus oviger* Harvey  
Scagel, 1957  
Southern British Columbia to Carmel, Calif.
- Ectocarpus saundersii* Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- Ectocarpus parksii* Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco Bay, Calif.
- Ectocarpus pygmaeus* Areschoug  
Dawson, 1954 (as *E. confervoides* f. *pygmaeus*); Scagel, 1957  
Shumagin I., Alaska, to Carmel, Calif.; Punta Descanso, Baja Calif.
- Ectocarpus siliculosus* (Dillwyn) Lyngbye f. *siliculosus*  
Setchell & Gardner, 1925; Sanborn & Doty, 1946; Doty, 1947  
Coos Bay, Oreg., to San Francisco Bay, Calif.
- Ectocarpus siliculosus* f. *subulatus* (Kützing)  
Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco Bay, Calif.
- Ectocarpus simulans* Setchell & Gardner  
Smith, 1944  
Monterey, Calif.
- Ectocarpus socialis* Setchell & Gardner  
Setchell & Gardner, 1925; Dawson, 1945b  
Southern Calif.
- Ectocarpus sonorensis* Dawson  
Dawson, 1954  
Guaymas, Gulf of Calif.
- Ectocarpus taoniae* Setchell & Gardner  
Setchell & Gardner, 1925  
San Pedro, Calif.
- Ectocarpus terminalis* Kützing  
Scagel, 1957  
Unalaska, Alaska, to Laguna Beach, Calif.



- Ectocarpus tomentosus* (Hudson) Lyngbye  
Scagel, 1957; Taylor, 1945  
Kodiak I., Alaska, to Laguna Beach, Calif.;  
Galapagos Arch.
- Zosterocarpus abyssicolus* Taylor  
Taylor, 1945  
Galapagos Arch.
- Streblonema aecidioides* f. *pacificum* Setchell &  
Gardner  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Streblonema anomalus* Setchell & Gardner  
Smith, 1944  
Monterey; San Pedro, Calif.
- Streblonema codicola* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Streblonema corymbiferum* Setchell & Gardner  
Smith, 1944  
Monterey; San Pedro, Calif.
- Streblonema desmarestiae* Gardner  
Gardner, 1940; Scagel, 1957  
San Juan I., Wash.
- Streblonema evagatum* Setchell & Gardner  
Smith, 1944  
Monterey, Calif.
- Streblonema investiens* (Collins) Setchell &  
Gardner  
Setchell & Gardner, 1925; Dawson, 1945*b*  
San Pedro to La Jolla, Calif.
- Streblonema irregulare* Saunders  
Setchell & Gardner, 1925  
Sitka, Alaska
- Streblonema johnstonae* Setchell & Gardner  
Setchell & Gardner, 1925  
San Pedro, Calif.
- Streblonema minutissimum* Saunders  
Setchell & Gardner, 1925  
Sitka, Alaska
- Streblonema myrionematoides* Setchell & Gard-  
ner  
Setchell & Gardner, 1925  
Moss Beach, Calif.
- Streblonema pacificum* Saunders  
Setchell & Gardner, 1925  
Yakutat Bay, Alaska, to San Francisco Bay,  
Calif.
- Streblonema penetrale* Setchell & Gardner  
Smith, 1944  
Pacific Grove, Calif.
- Streblonema porphyrae* Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- Streblonema rugosum* Setchell & Gardner  
Scagel, 1957  
Northern Wash.
- Streblonema scabiosum* Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.
- Streblonema transfixum* Setchell & Gardner  
Setchell & Gardner, 1925  
San Pedro, Calif.
- Streblonema vorax* Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

## FAM. RALFSIACEAE

- Ralfsia californica* Setchell & Gardner  
Dawson, 1954  
Central Calif.; Isla Tiburón to Isla Espiritu  
Santo, Gulf of Calif.; Bahía Tenacatita,  
Jalisco
- Ralfsia clavata* (Carmichael) Crouan  
Setchell & Gardner, 1925  
Unalaska Bay, Alaska
- Ralfsia fungiformis* (Gunnerus) Setchell &  
Gardner  
Scagel, 1957  
Bering Sea to Coos Bay, Oreg.

*Ralfsia hancockii* Dawson

Dawson, 1954, 1954c  
San Jose del Cabo, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.

*Ralfsia hesperia* Setchell & Gardner

Smith, 1944  
Carmel; Corona del Mar, Calif.

*Ralfsia occidentalis* Hollenberg

Dawson, 1954  
Isla Socorro, Revillagigedo Arch.

*Ralfsia pacifica* Hollenberg, in Dawson

Dawson, 1954; Scagel, 1957  
Unalaska, Alaska, to Baja Calif.; northern Gulf of Calif.

*Ralfsia pangoensis* var. *galapagensis* Setchell & Gardner

Setchell & Gardner, 1937  
Galapagos Arch.

*Hapterophycus canaliculatus* Setchell & Gardner

Dawson, 1954, 1959c  
Redondo, Calif., to Islas San Benito, Baja Calif.

*Lithoderma fatiscens* Areschoug

Setchell & Gardner, 1925  
Bering Sea; Unalaska, Alaska

*Hapalospongidion gelatinosum* Saunders

Smith, 1944; Dawson, 1954  
Carmel, Calif., to Punta Banda, Baja Calif.; Bahía Petatlán, Guerrero

## ORDER SPHACELARIALES

## FAM. SPHACELARIACEAE

*Sphacelaria brevicorne* Setchell & Gardner

Dawson, 1954  
Vicinity of La Paz, Gulf of Calif.

*Sphacelaria californica* Sauvageau

Setchell & Gardner, 1925  
San Pedro to San Diego, Calif.

*Sphacelaria didichotoma* Saunders

Smith, 1944  
Monterey to southern Calif.

*Sphacelaria furcigera* Kützing

Dawson, 1954, 1957b, 1959, 1959b  
La Jolla, Calif., to Isla Magdalena, Baja Calif.; Gulf of Calif.; Golfo de Nicoya, Costa Rica; Clipperton I.; Galapagos Arch.

*Sphacelaria hancockii* Dawson

Dawson, 1954, 1959  
Bahía Viscaíno, Baja Calif.; Gulf of Calif.

*Sphacelaria masonii* Setchell & Gardner

Dawson, 1954  
Isla Clarión, Revillagigedo Arch.

*Sphacelaria novae-hollandiae* Sonder

Dawson, 1954, 1957b  
Isla Guadalupe, Baja Calif.; Golfo Dulce, Costa Rica

*Sphacelaria racemosa* Greville

Scagel, 1957  
Bering Sea to Oreg.

*Sphacelaria subfusca* Setchell & Gardner

Scagel, 1957  
Sitka, Alaska, to Redondo, Calif.

*Sphacelaria tribuloides* Meneghini

Dawson, 1959  
Isla San Diego, Gulf of Calif.

## ORDER CUTLERIALES

## FAM. CUTLERIACEAE

*Cutleria hancockii* Dawson

Dawson, 1954  
Northern Gulf of Calif.

## ORDER TILOPTERIDALES

## FAM. TILOPTERIDACEAE

*Masonophycus paradoxa* Setchell & Gardner

Dawson, 1954  
Isla Clarión, Revillagigedo Arch.

## ORDER DICTYOTALES

## FAM. DICTYOTACEAE

- Pachydictyon coriaceum* (Holmes) Okamura  
Dawson, 1954, 1959, 1959c; Dawson, Neushul, Wildman, 1960  
Coos Bay, Oreg., to Punta Entrada, Isla Magdalena, Baja Calif.; northern Gulf of Calif. south to Isla Idefonso
- Dictyota binghamiae* J. Agardh  
Dawson, 1954; Dawson, Neushul, Wildman, 1960, 1960a  
Coos Bay, Oreg., to central Baja Calif.
- Dictyota concrescens* Taylor  
Dawson, 1954  
Cabo San Lazaro, Isla Magdalena, Baja Calif.
- Dictyota crenulata* J. Agardh  
Dawson, 1954, 1954c, 1959  
Isla San Benedicto, Revillagigedo Arch.; Isla San Diego, Gulf of Calif., to Puerto Culebra, Costa Rica
- Dictyota dichotoma* (Hudson) Lamouroux  
Dawson, 1954, 1957, 1959  
Gulf of Calif.; tropical Pacific Mexico and Central America ?; Galapagos Arch.
- Dictyota divaricata* Lamouroux  
Dawson, 1954, 1957, 1957b, 1959  
Isla Guadalupe, Baja Calif.; Revillagigedo Arch.; La Paz, Gulf of Calif., to Isla La Plata, Ecuador
- Dictyota flabellata* (Collins) Setchell & Gardner  
Smith, 1944; Taylor, 1945; Doty, 1947; Dawson, 1954, 1959, 1959c; Dawson, Neushul & Wildman, 1960  
Southern Calif. to Punta Santa Rosalía, Baja Calif.; northern Gulf of Calif. south to Isla Tortuga
- Dictyota friabilis* Setchell  
Dawson, 1957b; Dawson, Neushul & Wildman, 1960a  
Islas San Benito, Baja Calif.; Golfo de Nicoya, Costa Rica ?
- Dictyota major* Taylor  
Taylor, 1945  
Galapagos Arch.
- Dictyota masonii* Setchell & Gardner  
Dawson, 1954, 1960a  
Isla Margarita, Baja Calif. ?; Isla Clarión, Revillagigedo Arch., Isla del Caño, Costa Rica ?
- Dilophus okamurai* Dawson  
Dawson, 1954  
Vicinity of San Lucas, Baja Calif.
- Dilophus pinnatus* Dawson  
Dawson, 1954  
Miramar, Nayarit
- Dictyopteris cokeri* (Howe) Taylor  
Taylor, 1945  
Galapagos Arch.
- Dictyopteris delicatula* Lamouroux  
Dawson, 1954  
Revillagigedo Arch.; Clipperton I.
- Dictyopteris diaphana* Taylor  
Taylor, 1945  
Galapagos Arch.
- Dictyopteris johnstonei* Gardner  
Silva, 1957 (indicating probable identity with *D. zonarioides*)  
Santa Cruz I., Calif., to Islas San Benitos, Baja Calif.
- Dictyopteris membranacea* (Stackhouse) Batters  
Dawson, 1954  
Isla Guadalupe; Scammons Lagoon, Baja Calif.
- Dictyopteris repens* (Okamura) Børgesen  
Dawson, 1957, 1957b, 1959, 1959b  
Isla Carmén, Gulf of Calif.; Golfo de Nicoya, Costa Rica; Clipperton I.
- Dictyopteris zonarioides* Farlow  
Dawson, 1954, 1959, 1959c; Dawson, Neushul & Wildman, 1960  
Southern Calif. to San Jose del Cabo, Baja Calif.; northern Gulf of Calif. south to Isla Idefonso

*Taonia lennebackerae* Farlow

Dawson, 1954, 1959c; Dawson, Neushul, Wildman, 1960, 1960a  
Lechuza Point, Calif., to Bahía Asunción, Baja Calif.

*Syringoderma abyssicola* (Setchell & Gardner) Levring

Scagel, 1957  
Northern Wash.

*Spatoglossum ecuadoreanum* Taylor

Taylor, 1945  
Galapagos Arch.

*Spatoglossum howellii* Setchell & Gardner

Dawson, 1954; Dawson, Neushul, Wildman, 1960a  
Central Baja Calif.; Galapagos Arch.

*Spatoglossum lanceolatum* Dawson

Dawson, 1954  
Ensenada de San Francisco, Sonora

*Spatoglossum* sp. aff. *S. schroederi* (Mertens) J. Agardh

Dawson, 1959  
Isla San Pedro Nolasco, Gulf of Calif.

*Spatoglossum schmittii* Taylor

Taylor, 1945  
Galapagos Arch.

*Spatoglossum subflabellatum* Dawson

Dawson, 1954  
Ensenada de San Francisco, Sonora

*Glossophora galapagensis* Taylor

Taylor, 1945  
Galapagos Arch.

*Zonaria lobata* C. Agardh

Taylor, 1945  
Galapagos Arch.

*Zonaria farlowii* Setchell & Gardner

Dawson, 1954, 1959c; Dawson, Neushul, Wildman, 1960  
Santa Barbara Co., Calif., to Isla Magdalena, Baja Calif.

*Pocockiella variegata* (Lamouroux) Papenfuss

Taylor, 1945; Dawson, 1954, 1954c, 1957, 1957b, 1959, 1959b  
Rocas Alijos, Baja Calif.; Revillagigedo Arch.; southern Gulf of Calif.; Costa Rica; Guayas, Ecuador; Galapagos, Arch.; Clipper-ton I.

*Padina caulescens* Thivy

Dawson, 1954, 1957b, 1959  
Isla Monserrate, Gulf of Calif.; Isla María Magdalena, Nayarit; Golfo de Nicoya, Costa Rica

*Padina concrescens* Thivy

Taylor, 1945  
Galapagos Arch.

*Padina crispata* Thivy

Dawson, 1954, 1957b, 1959  
Southern Gulf of Calif. to Bahía Honda, Panamá

*Padina durvillaei* Bory

Taylor, 1945; Dawson, 1954, 1957, 1957b, 1959; Dawson, Neushul, Wildman, 1960  
Punta María, Baja Calif., to Guayas, Ecuador; Galapagos Arch.

*Padina mexicana* Dawson

Dawson, 1954, 1959  
Isla Turner to La Paz, Gulf of Calif.

*Padina tetrastromatica* Hauck

Dawson, 1954  
Isla María Madre, Nayarit ?

## ORDER CHORDARIALES

## FAM. MYRIONEMATACEAE

*Myrionema attenuatum* Setchell & Gardner

Smith, 1944  
Monterey Peninsula, Calif.

*Myrionema balticum* f. *californicum* Setchell & Gardner

Smith, 1944  
Monterey Peninsula, Calif.

- Myrionema balticum* f. *pedicellatum* Setchell & Gardner  
Setchell & Gardner, 1925  
Point Carmel, Calif.
- Myrionema compsonematoides* Setchell & Gardner  
Scagel, 1957  
Friday Harbor, Wash.
- Myrionema coronnae* f. *angulatum* Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.
- Myrionema coronnae* f. *sterile* Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- Myrionema coronnae* f. *uniforme* Setchell & Gardner  
Setchell & Gardner, 1925  
San Mateo Co., Calif.
- Myrionema foecundum* f. *ramulosum* Setchell & Gardner  
Scagel, 1957  
Friday Harbor, Wash.
- Myrionema foecundum* f. *simplicissimum* Setchell & Gardner  
Scagel, 1957  
Kodiak I., Alaska, to central Calif.
- Myrionema foecundum* f. *subulatum* Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.
- Myrionema globosum* f. *affine* Setchell & Gardner  
Scagel, 1957  
Sitka, Alaska, to Point Carmel, Calif.
- Myrionema minutissimum* Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.
- Myrionema obscurum* Setchell & Gardner  
Setchell & Gardner, 1925  
Moss Beach, Calif.
- Myrionema phyllophyllum* Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- Myrionema primum* Setchell & Gardner  
Scagel, 1957  
Alaska to Carmel, Calif.
- Myrionema setiferum* Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska
- Myrionema strangulans* Greville  
Scagel, 1957  
Sitka, Alaska, to Carmel, Calif.
- Compsonema coniferum* Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- Compsonema dubium* Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- Compsonema fasciculatum* Setchell & Gardner  
Smith, 1944  
Pacific Grove, Calif.
- Compsonema fructuosum* Setchell & Gardner  
Setchell & Gardner, 1925  
Tomales Bay, Calif.
- Compsonema immixtum* Setchell & Gardner  
Dawson, 1954  
Isla Partida, Gulf of Calif.
- Compsonema intricatum* Setchell & Gardner  
Smith, 1944  
Carmel, Calif.
- Compsonema myrionematoides* Setchell & Gardner  
Smith, 1944  
Pacific Grove, Calif.

*Compsonema nummuloides* Setchell & Gardner  
Setchell & Gardner, 1925  
Moss Beach, Calif.

*Compsonema pusillum* Setchell & Gardner  
Smith, 1944  
Carmel, Calif.

*Compsonema ramulosum* Setchell & Gardner  
Smith, 1944  
Carmel, Calif.

*Compsonema secundum* Setchell & Gardner  
Smith, 1944  
Moclips, Wash., to Carmel, Calif.

*Compsonema serpens* Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.

*Compsonema sessile* Setchell & Gardner  
Scagel, 1957  
Neah Bay, Wash.

*Compsonema speciosum* f. *piliferum* Setchell &  
Gardner  
Setchell & Gardner, 1925  
Moclips, Wash.

*Compsonema sporangiiferum* Setchell & Gard-  
ner  
Scagel, 1957  
Neah Bay, Wash.

*Compsonema streblonematoides* Setchell &  
Gardner  
Setchell & Gardner, 1925  
Tomales Bay, Calif.

*Compsonema tenue* Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

*Hecatonema clavatum* Setchell & Gardner  
Setchell & Gardner, 1925  
Tomales Bay, Calif.

*Hecatonema lawsonii* Setchell & Gardner  
Setchell & Gardner, 1925  
Uyak Bay, Alaska

*Hecatonema variabile* Setchell & Gardner  
Smith, 1944  
Monterey Peninsula, Calif.

## FAM. ELACHISTACEAE

*Halotrix lumbricalis* (Kützinger) Reinke  
Dawson, 1954  
Isla Guadalupe, Baja Calif.

*Elachistea fucicola* (Vellay) Areschoug  
Scagel, 1957  
Sitka, Alaska, to Coos Bay, Oreg.

*Elachistea lubrica* Ruprecht  
Setchell & Gardner, 1925  
Prince William Sound to Wrangell, Alaska

*Gonodia johnstonii* Setchell & Gardner  
Dawson, 1954  
Isla San Marcos, Gulf of Calif.

*Gonodia marchantae* Setchell & Gardner  
Dawson, 1954  
La Paz, Gulf of Calif.

## FAM. CORYNOPHLOEACEAE

*Petrospongium rugosum* (Okamura) Setchell &  
Gardner  
Smith, 1944; Dawson, 1954, 1959c  
San Mateo Co., Calif., to Bahía Asunción,  
Baja Calif.

*Leathesia difformis* (Linnaeus) Areschoug  
Coe, 1932; Dawson, 1954; Scagel, 1957; Daw-  
son, 1959c  
Bering Sea to Bahía Asunción, Baja Calif.

*Leathesia nana* Setchell & Gardner  
Smith, 1944; Doty, 1947; Dawson, 1958,  
1959c  
Oreg.; Monterey Peninsula; Carpinteria, Calif.

## FAM. CHORDARIACEAE

*Eudesme virescens* (Carmichael) J. Agardh  
Scagel, 1957  
Shumagin I. to Sitka, Alaska; La Jolla, Calif.

*Haplogloia andersonii* (Farlow) Levring  
Scagel, 1957; Dawson, 1954  
Sitka, Alaska, to Cabo Colnett, Baja Calif.

*Haplogloia kuckuckii* Kylin  
Scagel, 1957  
Sitka, Alaska, to Friday Harbor, Wash.

*Chordaria dissessa* Setchell & Gardner  
Scagel, 1957  
Northern Wash.

*Chordaria flagelliformis* (Müller) C. Agardh  
Setchell & Gardner, 1925  
Bering Sea to Sitka, Alaska

*Chordaria gracilis* Setchell & Gardner  
Setchell & Gardner, 1925  
Unalaska, Alaska

*Saundersella simplex* (Saunders) Kylin  
Scagel, 1957  
Cook Inlet, Alaska, to southern British Columbia

*Heterochordaria abietina* (Ruprecht) Setchell & Gardner  
Okamura, 1933; Scagel, 1957  
Bering Sea to Point Conception, Calif.

#### FAM. SPERMATOCHNACEAE

*Nemacystus brandegeei* (Setchell & Gardner)  
Kylin  
Dawson, 1954, 1959  
Scammon Lagoon, Baja Calif.; Gulf of Calif.

#### ORDER SPOROCHNALES

##### FAM. SPOROCHNACEAE

*Carpomitra costata* (Stackhouse) Batters  
Dawson, Neushul, Wildman, 1960a  
Vancouver I., British Columbia; Bahía Viscaíno, Baja Calif.

*Carpomitra luxurians* Taylor  
Taylor, 1945  
Galapagos Arch.

*Sporochnus bolleanus* Montagne  
Taylor, 1945; Dawson, Neushul, Wildman,  
1960a  
Isla Guadalupe; central Baja Calif.; Galapagos Arch.

*Sporochnus pedunculatus* (Hudson) C. Agardh  
Dawson, 1954; Dawson, Neushul, Wildman,  
1960a  
Isla Guadalupe; Scammon Lagoon, Baja Calif.

*Sporochnus rostratus* Taylor  
Taylor, 1945  
Galapagos Arch.

#### ORDER DESMARESTIALES

##### FAM. DESMARESTIACEAE

*Desmarestia farcta* Setchell & Gardner  
Scagel, 1957  
Northern Wash.

*Desmarestia filamentosa* Dawson  
Dawson, 1954  
Isla Ángel de la Guarda, Gulf of Calif.

*Desmarestia foliacea* Pease  
Scagel, 1957  
Northern Wash.

*Desmarestia herbacea* (Turner) Lamouroux  
Scagel, 1957; Dawson, 1959c; Dawson, Neushul, Wildman, 1960  
Kodiak Is., Alaska, to Isla Cedros, Baja Calif.

*Desmarestia intermedia* Postels & Ruprecht  
Scagel, 1957  
Bering Sea to Oreg.

*Desmarestia jordani* Gardner  
Gardner, 1940  
Ventura, Calif.

*Desmarestia latifrons* (Ruprecht) Kützing  
Doty, 1947  
Coos Bay, Oreg., to Point Sur, Calif.

*Desmarestia latissima* Setchell & Gardner  
Scagel, 1957  
Northern Wash.

*Desmarestia ligulata* (Lightfoot) Lamouroux  
Scagel, 1957  
Southern British Columbia to northern Wash.

*Desmarestia linearis* Gardner, in Smith  
Smith, 1944  
Monterey Peninsula, Calif.

*Desmarestia media* (C. Agardh) Greville var.  
*media*  
Setchell & Gardner, 1925; Okamura, 1933  
Atka I., to Unalaska, Alaska

*Desmarestia media* var. *tenuis* Setchell & Gardner  
Scagel, 1957  
Juneau, Alaska, to Puget Sound, Wash.

*Desmarestia mexicana* Dawson  
Dawson, 1954  
Isla Ángel de la Guarda, Gulf of Calif.

*Desmarestia munda* Setchell & Gardner  
Scagel, 1957; Dawson, Neushul, Wildman,  
1960  
Northern British Columbia to Punta Pequeña,  
Baja Calif.; Galapagos Arch.

*Desmarestia pacifica* Setchell & Gardner  
Dawson, 1954  
Santa Catalina I., Calif.; Isla Guadalupe, Baja  
Calif. ?

*Desmarestia tabacoides* Okamura  
Dawson, 1950a; Dawson, Neushul, Wildman,  
1960  
Santa Cruz I. to La Jolla, Calif.

*Desmarestia tropica* Taylor  
Taylor, 1945  
Galapagos Arch.

*Desmarestia viridis* (Müller) Lamouroux  
Scagel, 1957  
Alaska to Carmel, Calif.

## ORDER DICTYOSIPHONALES

## FAM. STRIARIACEAE

*Stictyosiphon tortilis* (Ruprecht) Reinke  
Scagel, 1957  
Port Clarence, Alaska; Monterey Peninsula,  
Calif.

## FAM. PUNCTARIACEAE

*Punctaria chartacea* Setchell & Gardner  
Setchell & Gardner, 1925  
Sitka, Alaska

*Punctaria expansa* Setchell & Gardner  
Scagel, 1957  
Southern British Columbia to northern Wash.

*Punctaria hesperia* Setchell & Gardner  
Scagel, 1957  
Victoria, British Columbia; Monterey; San  
Pedro, Calif.

*Punctaria latifolia* Greville  
Setchell & Gardner, 1925  
Metlacatla; Baranoff I., Alaska

*Punctaria lobata* (Saunders) Setchell & Gardner  
Setchell & Gardner, 1925  
Prince William Sound to Sitka, Alaska

*Punctaria occidentalis* Setchell & Gardner  
Smith, 1944  
Monterey, Calif.

*Punctaria orbiculata* Jao  
Scagel, 1957  
San Juan I., Wash.

*Punctaria plantaginea* Greville  
Saunders, 1901; Setchell & Gardner, 1925  
Yakutat Bay, Alaska ?

*Halorhipis winstonii* (Anderson) Saunders  
Smith, 1944  
Monterey Peninsula, Calif.



- Sorantbera ulvoidea* Postels & Ruprecht f. *ulvoidea*  
Scagel, 1957; Dawson, 1958, 1959c  
Bering Sea to Government Point, Calif.
- Sorantbera ulvoidea* f. *difformis* Setchell & Gardner  
Scagel, 1957  
Bering Sea to Cape Flattery, Wash.
- Myelophycus intestinale* Saunders  
Okamura, 1933; Scagel, 1957  
Atka I., Alaska, to Puget Sound, Wash.
- Isbiga foliaceae* Okamura  
Dawson, 1954; Setchell & Gardner, 1924 (as *Polyopes sinicola*)  
Northern Gulf of Calif.
- Phaeostrophion australe* Dawson  
Dawson, 1958, 1959c  
Government Point, Calif.
- Phaeostrophion irregulare* Setchell & Gardner  
Setchell & Gardner, 1925; Doty, 1947  
Coos Bay, Oreg.; Bolinas, Calif.
- FAM. SCYTOSIPHONACEAE
- Scytosiphon attenuatus* (Foslie) Doty  
Doty, 1947  
Coos Bay, Oreg. to central Calif.
- Scytosiphon bullosus* Saunders  
Dawson, 1954; Scagel, 1957  
Cook Inlet, Alaska, to central Calif.; central Baja Calif.; Gulf of Calif.; Galapagos Arch.
- Scytosiphon complanatus* (Rosenvinge) Doty  
Doty, 1947  
Cape Arago, Oreg., to Carmel, Calif.
- Scytosiphon lomentaria* (Lyngbye) J. Agardh f. *lomentaria*  
Coe, 1932; Dawson, 1954; Scagel, 1957; Dawson, 1959c  
Bering Sea to Islas San Benito, Baja Calif.
- Scytosiphon lomentaria* f. *cylindricus* subf. *maculatus* Setchell & Gardner  
Setchell & Gardner, 1925  
San Francisco, Calif.
- Scytosiphon complanatus* (Rosenvinge) Doty  
Doty, 1947  
Cape Arago, Oreg., to Carmel, Calif.
- Petalonia debilis* (C. Agardh) Derbès & Solier f. *debilis*  
Coe, 1932 (as *Ilea fascia*); Dawson, 1954 (as *Ilea fascia*); Scagel, 1957; Dawson, 1960a; (see also Setchell & Gardner, 1925 for *Ilea fascia* f. *caespitosa* and *Ilea fascia* f. *zosterifolia*)  
Unalaska, Alaska, to Isla Magdalena, Baja Calif.
- Endarachne binghamiae* J. Agardh  
Dawson, 1954, 1959c  
Southern Calif. to Bahía Asunción, Baja Calif.
- Colpomenia mollis* Taylor  
Taylor, 1945  
Isla Gorgona, Colombia
- Colpomenia ramosa* Taylor  
Dawson, 1954  
Isla Cedros, Baja Calif., to Puerto Parker, Costa Rica
- Colpomenia sinuosa* (Roth) Derbès & Solier f. *sinuosa*  
Taylor, 1945; Coe, 1932; Dawson, 1954, 1957, 1959, 1959c; Scagel, 1957; Dawson, Neushul, Wildman, 1960  
Yakutat Bay, Alaska, to Puerto Parker, Costa Rica; Clipperton I.; Galapagos Arch.
- Colpomenia sinuosa* f. *expansa* Saunders  
Setchell & Gardner, 1925  
Avalon, Santa Catalina I., Calif.
- Colpomenia sinuosa* f. *tuberculata* (Saunders) Setchell & Gardner  
Dawson, 1954; Scagel, 1957; Dawson, 1959  
Unalaska, Alaska, to southern Baja Calif.; Gulf of Calif.

*Hydroclathrus clathratus* (Bory) Howe  
 Coe, 1932; Dawson, 1954; Taylor, 1945;  
 Dawson, 1959  
 La Jolla, Calif. to Scammon Lagoon, Baja  
 Calif.; southern Gulf of Calif.; Guayas,  
 Ecuador

*Rosenvingea intricata* (J. Agardh) Børgesen  
 Dawson, 1954; Taylor, 1945; Dawson, 1959  
 Bahía Tepoca, Sonora, to Acapulco, Guerrero;  
 Revillagigedo Arch.; Guayas, Ecuador

*Rosenvingea orientalis* (J. Agardh) Børgesen  
 Dawson, 1960a  
 Bahía Potrero Grande, Costa Rica

## FAM. CHNOOSPORACEAE

*Chnoospora implexa* Hering, in J. Agardh  
 Dawson, 1957, 1957b, 1959, 1959b  
 Southern Gulf of Calif.; Golfo de Nicoya,  
 Costa Rica; Clipperton I.

*Chnoospora minima* (Hering) Papenfuss  
 Papenfuss, 1956; Dawson, 1954, 1954c (both  
 as *C. pacifica*)  
 La Paz, Gulf of Calif., to San Agustín, Oaxaca;  
 Isla San Benedicto, Revillagigedo Arch.

*Chnoospora pannosa* J. Agardh  
 Dawson, 1954  
 Isla Guadalupe, Baja Calif.

## FAM. DICTYOSIPHONACEAE

*Coilodesme bulligera* Stroemfelt  
 Okamura, 1933; Scagel, 1957  
 Aleutian Islands to Coos Bay, Oreg.

*Coilodesme californica* (Ruprecht) Kjellman  
 Scagel, 1957; Dawson, Neushul, Wildman,  
 1960, 1960a  
 Queen Charlotte Str., British Columbia, to  
 central Baja Calif.

*Coilodesme corrugata* Setchell & Gardner  
 Setchell & Gardner, 1925  
 Santa Catalina I., Calif.

*Coilodesme cystoseirae* (Ruprecht) Setchell &  
 Gardner  
 Setchell & Gardner, 1925  
 Kukak Bay; Yakutat Bay, Alaska

*Coilodesme polygnampta* Setchell & Gardner  
 Setchell & Gardner, 1925  
 Amaknak I.; Unalaska, Alaska

*Coilodesme rigida* Setchell & Gardner  
 Setchell & Gardner, 1925; Dawson, 1959c;  
 Dawson, Neushul, Wildman, 1960, 1960a  
 Redondo, Calif., to Bahía Tortuga, Baja Calif.

*Coilodesme sitchensis* Setchell & Gardner  
 Setchell & Gardner, 1925  
 Sitka, Alaska

*Dictyosiphon foeniculaceus* (Hudson) Greville  
 Scagel, 1957  
 Bering Sea to Puget Sound, Wash.

*Dictyosiphon hippuroides* (Lyngbye) Kützing  
 Setchell & Gardner, 1925  
 Bering Sea to Unalaska, Alaska

*Dictyosiphon hispidus* Kjellman  
 Setchell & Gardner, 1925  
 Orca, Alaska

*Dictyosiphon sinicola* Gardner  
 Scagel, 1957  
 Southern British Columbia to northern Wash.

*Dictyosiphon tenuis* Setchell & Gardner  
 Setchell & Gardner, 1925  
 Golofin Bay, Alaska

## ORDER LAMINARIALES

## FAM. CHORDACEAE

*Chorda filum* (Linnaeus) Lamouroux  
 Scagel, 1957  
 Bering Sea to Puget Sound, Wash. ?

## FAM. LAMINARIACEAE

- Laminaria complanata* (Setchell & Gardner)  
Setchell  
Scagel, 1957  
Friday Harbor, Wash.
- Laminaria cordata* Dawson  
Dawson, 1950a  
Santa Catalina I., Calif.
- Laminaria cuneifolia* J. Agardh f. *cuneifolia*  
Scagel, 1957  
Bering Sea to Oreg.
- Laminaria cuneifolia* f. *amplissima* Setchell & Gardner  
Scagel, 1957  
Sitka, Alaska, to Cape Flattery, Wash.
- Laminaria cuneifolia* f. *angusta* Setchell & Gardner  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Laminaria cuneifolia* f. *subsimplax* Setchell & Gardner  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Laminaria dentigera* Kjellman  
Setchell & Gardner, 1925  
Aleutian Islands, Alaska
- Laminaria ephemera* Setchell  
Scagel, 1957  
Southern British Columbia to Oreg.; Monterey Peninsula, Calif.
- Laminaria farlowii* Setchell  
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Santa Cruz, Calif., to Bahía del Rosario, Baja Calif.
- Laminaria longipes* Bory  
Okamura, 1933; Setchell & Gardner, 1925  
Aleutian Islands, Alaska
- Laminaria personata* Setchell & Gardner  
Setchell & Gardner, 1925  
Yakutat Bay to Sitka, Alaska
- Laminaria platymeris* De la Pylaie  
Scagel, 1957  
Bering Sea to northern Wash.
- Laminaria saccharina* (Linnaeus) Lamouroux f. *saccharina*  
Scagel, 1957  
Alaska to Coos Bay, Oreg.
- Laminaria saccharina* f. *linearis* J. Agardh  
Scagel, 1957  
Unga, Alaska, to Puget Sound, Wash.
- Laminaria saccharina* f. *membranacea* J. Agardh  
Scagel, 1957  
Alaska to Coos Bay, Oreg.
- Laminaria setchellii* Silva  
Scagel, 1957  
Northern British Columbia to southern Calif.  
Channel Islands
- Laminaria sinclairii* (Harvey in Hooker f.) Farlow, Anderson & Eaton  
Scagel, 1957; Dawson, 1958, 1959c  
Southern British Columbia to Ventura Co., Calif.
- Pleurophyucus gardneri* Setchell & Saunders  
Scagel, 1957  
Yakutat Bay, Alaska, to Coos Bay, Oreg.
- Cyamathere triplicata* (Postels & Ruprecht) J. Agardh  
Scagel, 1957  
Bering Sea to northern Wash.
- Costaria costata* (Turner) Saunders  
Scagel, 1957  
Shumagin I., Alaska, to San Pedro, Calif.
- Costaria mertensii* J. Agardh  
Scagel, 1957  
Bering Sea to Monterey, Calif.

- Tbalassiophyllum clathrus* (Gmelin) Postels & Ruprecht  
Okamura, 1933; Scagel, 1957  
Bering Sea to Straits of Juan de Fuca ?
- Agarum cribrosum* (Mertens) Bory  
Scagel, 1957  
Bering Sea to northern Wash.
- Agarum fimbriatum* Harvey  
Scagel, 1957; Dawson, Neushul & Wildman, 1960  
Puger Sound, Wash., to southern Calif. Channel Islands
- Hedophyllum bongardianum* (Postels & Ruprecht) Yendo  
Miyabe & Nagai, 1932; Scagel, 1957 (as *Hedophyllum subsessile*)  
Bering Sea to Coos Bay, Oreg.
- Hedophyllum sessile* (C. Agardh) Setchell  
Okamura, 1933; Scagel, 1957  
Aleutian Islands to Point Sur, Calif.
- Arthrothamnus bifidus* (Gmelin) J. Agardh  
Setchell & Gardner, 1925  
Aleutian Islands, Alaska
- FAM. LESSONIACEAE
- Dictyoneurum californicum* Ruprecht  
Scagel, 1957  
Vancouver I., British Columbia ?, to San Luis Obispo Co., Calif.
- Dictyoneuropsis reticulata* (Saunders) G. M. Smith  
Smith, 1944; Silva, 1957  
Fort Ross; Monterey Peninsula, Calif.; northern Channel Islands
- Nereocystis luetkeana* (Mertens) Postels & Ruprecht  
Scagel, 1957  
Shumagin I., Alaska, to San Luis Obispo Co., Calif. (drift only to Santa Barbara)
- Postelsia palmaeformis* Ruprecht  
Scagel, 1957  
Hope I., British Columbia to San Luis Obispo Co., Calif.
- Macrocystis integrifolia* Bory  
Womersley, 1954; Scagel, 1957,  
Sitka, Alaska, to Carmel, Calif.
- Macrocystis pyrifera* (Linnaeus) C. Agardh  
Doty, 1947; Dawson, 1954, 1957, 1959c;  
North, 1959; Dawson, Neushul & Wildman, 1960  
Sitka, Alaska, to Punta San Hipólito, Baja Calif., and sporadically to Isla Magdalena; Rocas Alijos
- Pelagophycus porra* (Leman) Setchell  
Dawson, 1954; Dawson, Neushul & Wildman, 1960  
Point Conception, Calif., to Islas San Benito, Baja Calif.
- Lessoniopsis littoralis* (Farlow & Setchell ex Tilden) Reinke  
Scagel, 1957  
Sitka, Alaska, to Carmel, Calif.
- FAM. ALARIACEAE
- Pterygophora californica* Ruprecht  
Dawson, 1954; Scagel, 1957  
Southern British Columbia to Bahía del Rosario, Baja Calif.
- Alaria dolichorhachis* Kjellman  
Okamura, 1933; Setchell & Gardner, 1925  
Aleutian Islands, Alaska
- Alaria fistulosa* Postels & Ruprecht f. *fistulosa*  
Okamura, 1933; Setchell & Gardner, 1925  
Bering Sea to Wrangel, Alaska
- Alaria fistulosa* f. *platyphylla* Setchell  
Setchell & Gardner, 1925  
Bering Sea to southeastern Alaska
- Alaria fistulosa* f. *stenopylla* Setchell  
Setchell & Gardner, 1925  
Bering Sea to southeastern Alaska

- Alaria lanceolata* Kjellman  
Setchell & Gardner, 1925  
Bering Sea to Sitka, Alaska
- Alaria marginata* Postels & Ruprecht  
Scagel, 1957  
Northern British Columbia to Carmel, Calif.
- Alaria nana* Schrader  
Scagel, 1957  
Hope I., British Columbia to Carmel, Calif.
- Alaria pylaii* (Bory) Greville  
Setchell & Gardner, 1925  
Prince William Sound to Kodiak I., Alaska
- Alaria tenuifolia* Setchell f. *tenuifolia*  
Okamura, 1933; Setchell & Gardner, 1925  
Bering Sea to northern Wash.
- Alaria tenuifolia* f. *amplior* Setchell & Gardner  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Alaria valida* Kjellman & Setchell f. *valida*  
Scagel, 1957  
Unga, Alaska, to Puget Sound, Wash.
- Alaria valida* f. *longipes* Setchell & Gardner  
Scagel, 1957  
Queen Charlotte Sound, British Columbia, to  
northern Wash.
- Eisenia arborea* Areschoug  
Dawson, 1954, 1959c; Dawson, Neushul &  
Wildman, 1960  
Kyuquot Sound, Vancouver I., British Colum-  
bia; Redondo, Calif. to Isla Magdalena,  
Baja Calif.
- Eisenia desmarestioides* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Eisenia galapagensis* Taylor  
Taylor, 1945  
Galapagos Arch.
- Eisenia masonii* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Egrecia laevigata* Setchell subsp. *laevigata*  
Coe, 1932; Dawson, 1954, 1957 (as *E. aus-  
tralis* Hollenberg ms.), 1959c; Dawson,  
Neushul & Wildman, 1960; Silva, 1957  
Goleta, Calif., to Punta San Eugenio, Baja  
Calif.; Rocas Alijos
- Egrecia laevigata* subsp. *borealis* (Setchell)  
Silva  
Silva, 1957  
Santa Cruz to Gaviota, Calif.
- Egrecia menziesii* (Turner) Areschoug subsp.  
*menziesii*  
Scagel, 1957  
Northern British Columbia to Point Concep-  
tion, Calif.
- Egrecia menziesii* subsp. *insularis* Silva  
Silva, 1957  
Northern Channel Islands, Calif.

## ORDER FUCALES

## FAM. FUCACEAE

*Fucus distichus* Linnaeus, emend Powell

Powell, 1957 (All species and subspecies of *Fucus* heretofore recognized from Pacific North America, with the exception of *F. parksii*, are considered by Powell as variants of *F. distichus*. Under subspecies *edentatus* he places *F. edentatus* De la Pylaie, *F. furcatus* C. Ag. (*F. gardneri* Silva), *F. nitens* Gard. and *F. evanescens* C. Ag., in part. Under subsp. *evanescens* he places *F. evanescens* C. Ag., in part. He considers *F. membranaceus* Gard. not sufficiently distinct even for subspecies status. See Dawson, 1946a, for a listing of the described forms, also Scagel, 1957 (various northern forms); Dawson, 1958 (as *F. furcatus*), 1959c (as *F. furcatus*)  
Bering Sea to Government Point, Calif.

- Fucus parksii* Gardner  
Gardner, 1940  
Humbolt Bay; Eureka, Calif.
- Pelvetia fastigiata* (J. Agardh) G. De Toni f. *fastigiata*  
Dawson, 1954; Scagel, 1957; Dawson, 1959c  
Horswell Channel, British Columbia; Coos Bay, Oreg., to Punta Baja, Baja Calif.
- Pelvetia fastigiata* f. *gracilis* Setchell & Gardner  
Smith, 1944; Dawson, 1954  
Monterey Peninsula; Channel Islands, Calif.; northern Baja Calif.
- Pelvetiopsis arborescens* Gardner  
Gardner, 1940  
Point Carmel, Calif.
- Pelvetiopsis limitata* (Setchell) Gardner f. *limitata*  
Scagel, 1957  
Hope I., British Columbia, to Carmel, Calif.
- Pelvetiopsis limitata* f. *lata* Gardner  
Smith, 1944  
Tomales Point to Monterey, Calif.
- Hesperophycus harveyanus* (Decaisne) Setchell & Gardner  
Dawson, 1954, 1959c  
Santa Cruz, Calif., to Islas San Benito, Baja Calif.
- FAM. SARGASSACEAE
- Cystophora brandegeei* (Setchell & Gardner)  
Dawson  
Dawson, 1954, 1945c  
La Jolla, Calif., to Isla Guadalupe, Baja Calif.
- Cystophora galapagensis* (Piccone & Grunow in Piccone) comb. nov.  
Taylor, 1945 (as *Blossevillea galapagensis*);  
Piccone, 1886: 40 (as *Fucodium galapagense*)  
Galapagos Arch.
- Cystoseira geminata* C. Agardh  
Scagel, 1957  
Bering Sea to northern Wash.
- Cystoseira neglecta* Setchell & Gardner  
Dawson, 1954  
Santa Catalina I., Calif., to Desembarcadero de Miller, Baja Calif.
- Cystoseira osmundacea* (Menzies) C. Agardh  
Doty, 1947; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960.  
Seaside, Oreg., to Punta Abreojos, Baja Calif.
- Cystoseira setchellii* Gardner  
Setchell & Gardner, 1925  
Redondo to San Diego, Calif.
- Halidrys dioica* Gardner  
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Redondo, Calif., to Isla Asunción, Baja Calif.
- Sargassum acinacifolium* Setchell & Gardner  
Dawson, 1954  
Puerto Libertad to Guaymas, Sonora
- Sargassum agardhianum* Farlow  
Dawson, 1954, 1959c, 1960a; Dawson, Neushul & Wildman, 1960  
Point Dume, Calif., to Punta Eugenio, Baja Calif.
- Sargassum albemarlense* Taylor  
Taylor, 1945; Dawson, 1957  
Galapagos Arch.
- Sargassum brandegeei* Setchell & Gardner  
Taylor, 1945; Dawson, 1954, 1959  
Puerto Libertad to Isla San Pedro Nolasco, Gulf of Calif.; Galapagos Arch.
- Sargassum camouii* Dawson  
Dawson, 1954  
Bahía Viscaíno, Baja Calif.; east central Gulf of Calif.
- Sargassum ecuadoreanum* Taylor  
Taylor, 1945  
Vicinity of Guayas, Ecuador

- Sargassum galapagense* Grunow  
Taylor, 1945  
Galapagos Arch.
- Sargassum herporbizum* Setchell & Gardner  
Dawson, 1954  
Isla George; Isla San Pedro Mártir, Gulf of Calif.
- Sargassum horridum* Setchell & Gardner  
Dawson, 1954, 1959  
Southern Gulf of Calif.
- Sargassum howellii* Setchell & Gardner  
Dawson, 1954  
Revillagigedo Arch.
- Sargassum johnstonii* Setchell & Gardner f. *johnstonii*  
Dawson, 1954  
Punta Peñasco to Bahía Agua Verde, Gulf of Calif.
- Sargassum johnstonii* f. *gracile* Setchell & Gardner  
Dawson, 1954  
Punta Peñasco to Guaymas, Gulf of Calif.
- Sargassum lapazeanum* Setchell & Gardner  
Dawson, 1954  
Guaymas to La Paz, Gulf of Calif.
- Sargassum liebmannii* J. Agardh var. *liebmannii*  
Dawson, 1954, 1957b  
San Jose del Cabo, Baja Calif., to Bahía Honda, Panamá
- Sargassum liebmannii* var. *nicoyana* Grunow  
Dawson, 1957b  
Golfo de Nicoya, Costa Rica
- Sargassum macdougallii* Dawson  
Dawson, 1954, 1959  
Central and northern Gulf of Calif.
- Sargassum muticum* (Yendo) Fensholt  
Scagel, 1957  
Nanaimo, British Columbia, to Coos Bay, Oreg.
- Sargassum pacificum* Bory f. *pacificum*  
Taylor, 1945; Dawson, 1957  
Galapagos Arch.
- Sargassum pacificum* f. *congestum* Setchell  
Taylor, 1945  
Galapagos Arch.
- Sargassum pacificum* f. *rigidiusculum* (Grunow) Setchell  
Taylor, 1945  
Galapagos Arch.
- Sargassum pacificum* f. *megaphyllum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Sargassum palmeri* Grunow  
Dawson, 1954  
Santa Cruz ?; Santa Catalina I., Calif., to Islas San Benito, Baja Calif.
- Sargassum setifolium* (Grunow) Setchell  
Taylor, 1945; Dawson, 1957  
Galapagos Arch.
- Sargassum sinicola* Setchell & Gardner  
Dawson, 1954, 1959  
Punta Peñasco to La Paz, Gulf of Calif.; Isla Guadalupe, Baja Calif.
- Sargassum skottsbergii* Sjoestedt, prox.  
Taylor, 1945  
Salinas, Ecuador
- Sargassum sonorensense* Dawson  
Dawson, 1960a  
Northern Gulf of Calif.
- Sargassum templetonii* Setchell  
Taylor, 1945; Dawson, Neushul & Wildman, 1960a  
Isla Magdalena, Baja Calif.; Galapagos Arch.
- Sargassum vizcainense* Dawson  
Dawson, 1954; Dawson, Neushul & Wildman, 1960a  
Bahía Vizcaino and Isla Cedros to Punta Pequeña, Baja Calif.

*Sargassum zaca* Setchell

Taylor, 1945  
Galapagos Arch.

## PHYLUM RHODOPHYCOPHYTA

## CLASS RHODOPHYCEAE

## SUBCLASS BANGIOPHYCIDAE

## ORDER GONIOTRICHALES

## FAM. GONIOTRICHACEAE

*Goniotrichum cornu-cervi* (Reinsch) Hauck

Scagel, 1957  
Friday Harbor, Wash.; Santa Cruz I., Calif.

*Goniotrichum elegans* (Chauvin) Zanardini

Taylor, 1945 (as *G. alsidii*); Dawson, 1954,  
1957*b*; Scagel, 1957  
Friday Harbor, Wash., to Isla Gorgona, Co-  
lombia

*Goniotrichopsis sublittoralis* G. M. Smith

Smith, 1944  
Monterey, Calif.

## ORDER BANGIALES

## FAM. ERYTHROPELTIDACEAE

*Smithora naiadum* (Anderson) Hollenberg

Hollenberg, 1959; Dawson, Neushul & Wild-  
man, 1960; Dawson, 1949*a* (as *Porphyra*  
*naiadum*); Scagel, 1957 (as *Porphyra nai-*  
*adum*); Dawson, 1954 (as *Porphyra nai-*  
*adum* var. *australis*), 1959*c* (as *Porphyra*  
*naiadum*)  
Northern British Columbia to Isla Magdalena,  
Baja Calif.

*Erythropeltis discigera* (Berthold) Schmitz

Dawson, 1954  
Isla Tiburón, Gulf of Calif.

*Erythrotrichia ascendens* Dawson

Dawson, 1954  
Cabo Pulmo, southern Gulf of Calif.

*Erythrotrichia biseriata* Tanaka

Dawson, 1954, 1954*c*  
Islas San Benito; Punta Abreojos, Baja Calif.;  
Gulf of Calif. to Mazatlán, Sinaloa; Isla  
San Benedicto, Revillagigedo Arch.

*Erythrotrichia boryana* (Montagne) Berthold

Dawson, 1954  
Punta Baja to Bahía Asunción, Baja Calif.

*Erythrotrichia californica* Kylin

Smith, 1944; Dawson, 1954  
Monterey, Calif.; Ensenada, Baja Calif.; Isla  
Tiburón, Gulf of Calif.

*Erythrotrichia carnea* (Dillwyn) J. Agardh

Smith, 1944; Dawson, 1954, 1957*b*, 1959*b*  
Monterey, Calif., to Golfo Dulce, Costa Rica;  
Clipperton I.

*Erythrotrichia ciliaris* (Carmichael) Batters

Dawson, 1954  
Punta Baja; Isla Cedros, Baja Calif.

*Erythrotrichia kylinii* Gardner

Scagel, 1957  
Bering Sea to Puget Sound, Wash.

*Erythrotrichia parksii* Gardner var. *parksii*

Gardner, 1927  
Eureka, Calif.

*Erythrotrichia parksii* var. *minor* Gardner

Scagel, 1957  
Southern British Columbia to northern Wash.

*Erythrotrichia polymorpha* Howe

Taylor, 1945  
Galapagos Arch.

*Erythrotrichia porphyroides* Gardner

Gardner, 1927  
San Francisco, Calif.

*Erythrotrichia pulvinata* Gardner

Doty, 1947; Hollenberg, 1948; Dawson, 1954  
Middle Bay, Oreg., to Bahía Asunción, Baja  
Calif.



- Erythrotrichia tetraseriata* Gardner  
Dawson, 1954  
San Pedro, Calif.; Isla Magdalena, Baja Calif.
- Erythrotrichia welwitschii* (Ruprecht) Batters  
Doty, 1947  
South Bay, Oreg.; Monterey, Calif.
- Erythrocladia ectozoica* Dawson  
Dawson, 1954  
Scammon Lagoon, Baja Calif.
- Erythrocladia irregularis* Rosenvinge  
Dawson, 1954; Scagel, 1957  
Northern Wash. to Monterey, Calif.; Isla Turner, Gulf of Calif.
- Erythrocladia subintegra* Rosenvinge  
Dawson, 1954; Scagel, 1957  
Northern Wash. to northern Baja Calif.; Gulf of Calif.
- FAM. BANGIACEAE
- Bangia enteromorphoides* Dawson  
Dawson, 1954  
Mazatlán, Sinaloa
- Bangia fuscopurpurea* (Dillwyn) Lyngbye  
Dawson, 1954, 1959c; Scagel, 1957  
Northern British Columbia to Costa Rica
- Bangia maxima* Gardner  
Gardner, 1927  
Bolínas, Calif.
- Bangia tenuis* Gardner  
Scagel, 1957  
Orcas I., Wash.
- Bangia vermicularis* Harvey  
Sanborn & Doty, 1946; Doty, 1947  
Coos Bay, Oreg., to Carmel, Calif.
- Porphyra abyssicola* Kjellman  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Porphyra amplissima* (Kjellman) Setchell & Hus  
Scagel, 1957  
Amaknak I., Alaska, to northern Wash.
- Porphyra hollenbergii* Dawson  
Dawson, 1954, 1959  
Southern Gulf of Calif.
- Porphyra laciniata* (Lightfoot) C. Agardh  
Setchell & Gardner, 1903  
Amaknak I. to Sitka, Alaska
- Porphyra lanceolata* (Setchell & Hus) G. M. Smith  
Scagel, 1957  
Chehalis Bay, Wash. to Carmel, Calif.
- Porphyra miniata* f. *cuneiformis* Setchell & Hus  
Scagel, 1957  
Gulf of Alaska to Monterey, Calif.
- Porphyra nereocystis* Anderson  
Scagel, 1957  
Uyak Bay, Alaska, to San Pedro, Calif.? (probably to San Luis Obispo Co.)
- Porphyra occidentalis* Setchell & Hus  
Sanborn & Doty, 1946; Doty, 1947  
Coos Bay, Oreg.; Carmel Bay, Calif.
- Porphyra pendula* Dawson  
Dawson, 1954  
Isla Partida; Isla Patos, Gulf of Calif.
- Porphyra perforata* J. Agardh f. *perforata*  
Okamura, 1933; Dawson, 1954, 1959c; Scagel, 1957  
Aleutian Islands, Alaska, to Isla Magdalena, Baja Calif.
- Porphyra perforata* f. *segregata* Setchell & Hus  
Scagel, 1957  
Southern British Columbia to northern Calif.
- Porphyra pulchra* Hollenberg  
Smith, 1944  
Santa Cruz to Monterey, Calif.

*Porphyra schizophylla* Hollenberg

Doty, 1947

Harris State Park; Otter Point, Oreg.; Pescadero Point, Calif.

*Porphyra thuretii* Setchell & Dawson, in Dawson

Doty, 1947; Dawson, 1954, 1959c

Chetco Cove, Oreg., to Isla Magdalena, Baja Calif.; Gulf of Calif.; Puerto Parker, Costa Rica

*Porphyra tenuissima* (Stroemfelt) Setchell & Hus

Setchell &amp; Gardner, 1903

Shumagin I.; Yakutat Bay, Alaska

*Porphyra umbilicalis* (Linnaeus) Kützing

Scagel, 1957 (but with incorrect authorship)

St. Paul I., Alaska, to southern British Columbia

*Porphyra variegata* (Kjellman) Hus

Scagel, 1957

Southern British Columbia to Monterey, Calif.

*Porphyrella californica* Hollenberg

Hollenberg, 1945

Southern Calif.

*Porphyrella gardneri* Smith & Hollenberg

Hollenberg, 1945; Scagel, 1957

Northern British Columbia to Monterey, Calif.

*Porphyropsis coccinea* (J. Agardh) Rosenvinge

Scagel, 1957

Friday Harbor, Wash.

*Conchocelis rosea* Batters (probably represents a stage in the life cycle of one or more species of *Porphyra*)

Scagel, 1957

Northern Wash.

## SUBCLASS FLORIDEOPHYCIDAE

## ORDER NEMALIONALES

## FAM. ACROCHAETIACEAE

*Acrochaetium amphiroae* (Drew) PapenfussDawson, 1945b (as *Rhodochorton amphiroae*); Doty, 1947; Dawson, 1954  
Oreg. to Isla Cedros, Baja Calif.*Acrochaetium angustum* (Drew) PapenfussPapenfuss, 1945  
Santa Catalina I., Calif.*Acrochaetium ascidiophilum* DawsonDawson, 1954  
Bahía San Quintín, Baja Calif.*Acrochaetium bonnemaisoniae* (Batters) J. & G. FeldmannDawson, 1954  
Punta San Quintín, Baja Calif.*Acrochaetium bornetii* PapenfussDawson, 1954  
San Pedro, Calif.; Punta Pequeña, Baja Calif.*Acrochaetium coccineum* (Drew) PapenfussPapenfuss, 1945  
Marin Co.; San Francisco, Calif.*Acrochaetium daviesii* (Dillwyn) NägeliDawson, 1954; Dawson, Neushul & Wildman, 1960a  
Carmel, Calif., to Isla Clarión, Revillagigedo Arch.*Acrochaetium densum* (Drew) PapenfussPapenfuss, 1945  
San Francisco, Calif.*Acrochaetium desmarestiae* KylinScagel, 1957  
Northern Wash. to Oreg.*Acrochaetium dictyotae* CollinsPapenfuss, 1945  
San Diego Co., Calif.

- Acrochaetium eastwoodae* (Setchell & Gardner) Papenfuss  
Dawson, 1954  
Isla Clarión, Revillagigedo Arch.
- Acrochaetium elegans* (Drew) Papenfuss  
Papenfuss, 1945  
La Jolla, Calif.
- Acrochaetium erythrophyllum* Jao  
Scagel, 1957  
Port Angeles, Wash.
- Acrochaetium gymnogongri* (Drew) Papenfuss  
Papenfuss, 1945  
San Francisco, Calif.
- Acrochaetium hancockii* (Dawson) Papenfuss  
Dawson, 1954  
Isla Ángel de la Guarda, Gulf of Calif.
- Acrochaetium infestans* Howe & Hoyt  
Dawson, 1960a  
Puerto Culebra, Costa Rica
- Acrochaetium macounii* (Collins) Hamel  
Scagel, 1957  
Vancouver I., British Columbia, to Carmel Bay, Calif.
- Acrochaetium magnificum* (Drew) Papenfuss  
Papenfuss, 1945  
La Jolla, Calif.
- Acrochaetium obscurum* (Drew) Papenfuss  
Papenfuss, 1945  
Marin Co. to Carmel, Calif.
- Acrochaetium pacificum* Kylin  
Dawson, 1954; Scagel, 1957; Dawson, Neushul & Wildman, 1960a  
Northern Wash.; Oreg.; Islas San Benito, Baja Calif.; vicinity of Guaymas, Sonora
- Acrochaetium penetrale* (Drew) Papenfuss  
Taylor, 1945; Dawson, 1954  
La Jolla, Calif.; Bahía San Quintín, Baja Calif.; Puerto Parker, Costa Rica
- Acrochaetium plumosum* (Drew) G. M. Smith  
Papenfuss, 1945; Dawson, 1954  
Tomales Bay, Calif., to Bahía Asunción, Baja Calif.
- Acrochaetium punctatum* Dawson  
Dawson, 1954  
Bahía Bocochoibampo, Sonora
- Acrochaetium rhizoideum* (Drew) Jao var. *rhizoideum*  
Dawson, 1954; Scagel, 1957  
Wash. to Isla Cedros, Baja Calif.
- Acrochaetium rhizoideum* var. *patens* (Drew) G. M. Smith  
Smith, 1944  
Carmel, Calif.
- Acrochaetium scinaiae* Dawson  
Dawson, 1954  
Santa Barbara I., Calif.; Gulf of Calif.
- Acrochaetium simplex* (Drew) Papenfuss  
Papenfuss, 1945  
Santa Monica, Calif.
- Acrochaetium sinicolum* (Dawson) Papenfuss  
Dawson, 1954  
Isla Turner, Gulf of Calif.
- Acrochaetium spiculiphilum* Dawson  
Dawson, 1954  
Bahía San Quintín, Baja Calif.
- Acrochaetium subimmersum* (Setchell & Gardner) Papenfuss  
Scagel, 1957  
Northern Wash. to Carmel, Calif.
- Acrochaetium subseriatum* Børgesen  
Dawson, 1959b  
Clipperton I.
- Acrochaetium tenuissimum* (Collins) Papenfuss  
Papenfuss, 1945  
San Pedro, Calif.

- Acrochaetium thuretii* var. *agama* (Rosenvinge)  
Dawson  
Dawson, 1945d  
San Pedro, Calif.
- Acrochaetium vagum* (Drew) Jao  
Scagel, 1957  
Northern Wash. to Moss Beach, Calif.
- Acrochaetium variabile* (Drew) G. M. Smith  
Dawson, 1954; Scagel, 1957; Dawson, 1954c  
Northern Wash. to Isla San Martín, Baja  
Calif.; Mazatlán, Sinaloa; Isla San Bene-  
dicto, Revillagigedo Arch.
- Kylinia arcuata* (Drew) Kylin  
Dawson, 1954; Scagel, 1957  
Cape Flattery, Wash., to Moss Beach, Calif.;  
Isla Turner, Gulf of Calif.
- Kylinia crassipes* (Børgesen) Kylin  
Dawson, 1954  
Bahía Vizcaino, Baja Calif.; Isla Rasa, Gulf of  
Calif. ?
- Kylinia hirsuta* (Drew) Kylin  
Dawson, 1949; Scagel, 1957  
Vancouver, British Columbia; Santa Catalina  
I., Calif.
- Kylinia implicata* (Drew) Papenfuss  
Papenfuss, 1947  
Moss Beach, Calif.
- Kylinia microscopica* (Nägeli) Kylin  
Kylin, 1944; Papenfuss, 1945 (as *Chroma-  
strum microscopicum*)  
La Jolla, Calif.
- Kylinia moniliformis* (Rosenvinge) Kylin  
Scagel, 1957  
Vancouver I., British Columbia
- Kylinia porphyrae* (Drew) Papenfuss  
Papenfuss, 1945 (as *Chromastrum porphy-  
rae*); Dawson, 1954  
San Francisco; Monterey, Calif.; Bahía San  
Quintín, Baja Calif.
- Kylinia secundata* (Lyngbye) Papenfuss  
Dawson, 1954  
Bahía Bocohibampo, Sonora
- Kylinia seriaspora* Dawson  
Dawson, 1954  
Isla Turner, Gulf of Calif.
- Rhodochorton concrescens* Drew  
Papenfuss, 1945  
Carmel Bay, Calif.
- Rhodochorton penicilliforme* (Kjellman) Ro-  
senvinge  
Scagel, 1957  
Spruce I., Alaska, to San Juan Co., Wash.
- Rhodochorton purpureum* (Lightfoot) Rosen-  
vinge  
Dawson, 1954; Scagel, 1957  
Bering Sea to Punta Eugenio, Baja Calif.
- Rhodochorton tenue* Kylin  
Scagel, 1957  
San Juan I., Wash.; Santa Cruz, Calif.
- Audouinella membranacea* (Magnus) Papenfuss  
Scagel, 1957  
San Juan Co., Calif.

## FAM. HELMINTHOCLADIACEAE

- Nemalion helminthoides* (Vellay) Batters  
Dawson, 1954; Scagel, 1957; Dawson, 1959c,  
1960a  
Sitka, Alaska, to Isla Magdalena, Baja Calif.
- Nemalion pulvinatum* Grunow  
Dawson, 1954  
Bahía Agua Verde, Baja Calif.
- Nemalion virens* J. Agardh  
Dawson, 1954  
Cabeza Ballena, southern Baja Calif.; Pacific  
Mexico, probably Oaxaca
- Helminthora saundersii* Gardner  
Smith, 1944  
Monterey, Calif.

*Helminthora stricta* Gardner

Gardner, 1926  
La Jolla, Calif.

*Dermonema frappieri* (Montagne & Millardet) Børgesen

Dawson, 1954, 1954*b*, 1954*c*, 1959  
Isla San Benedicto, Revillagigedo Arch.; Isla Carmén, Gulf of Calif.; Mazatlán, Sinaloa

*Helminthocladia californica* (J. Agardh) Kylin

Dawson, 1954  
Santa Barbara, Calif., to Punta Pequeña, Baja Calif.

*Helminthocladia gracilis* Gardner

Gardner, 1926  
Santa Barbara, Calif.

*Cumagloia andersonii* (Farlow) Setchell & Gardner

Dawson, 1954; Scagel, 1957  
Hope I., British Columbia, to Cabo Colnett, Baja Calif.

*Liagora abbottae* Dawson

Dawson, 1954  
Punta Santa Rosalía, Baja Calif.

*Liagora californica* Zeh

Dawson, 1945*d*, 1954  
Santa Catalina I., Calif., to Isla Guadalupe, Baja Calif.

*Liagora ceranoides* Lamouroux f. *ceranoides*

Taylor, 1945; Dawson, 1957*b*  
Costa Rica

*Liagora ceranoides* f. *leprosa* (J. Agardh) Yamada

Dawson, 1954  
Isla Guadalupe; Bahía Vizcaino, Baja Calif.

*Liagora farinosa* Lamouroux f. *farinosa*

Dawson, 1959  
Southwestern Gulf of Calif.

*Liagora farinosa* f. *pinnatiramosa* Yamada

Dawson, 1954, 1957  
Isla Guadalupe; Rocas Alijos, Baja Calif.

*Liagora magniinvolucra* Dawson

Dawson, 1954, 1959  
Southwestern Gulf of Calif.

*Liagora orientalis* J. Agardh

Dawson, 1954  
Bahía Vizcaino, Baja Calif.

*Liagora valida* Harvey

Dawson, 1957*b*  
Golfo Dulce, Costa Rica

## FAM. CHAETIANGIACEAE

*Gloiophloea confusa* Setchell

Dawson, 1954, 1959*c*, 1960*a*; Scagel, 1957; Taylor, 1945; Dawson, Neushul & Wildman, 1960; also see Levring, 1955  
Vancouver I., British Columbia, to Punta María, Baja Calif.; Gulf of Calif.; Costa Rica; Galapagos Arch.

*Scinaia articulata* Setchell

Setchell, 1914*a*; Dawson, 1949  
Santa Barbara I.; Santa Barbara, Calif.

*Scinaia complanata* (Collins) Cotton

Taylor, 1945  
Puerto Culebra, Costa Rica; Galapagos Arch.

*Scinaia johnstoniae* Setchell

Taylor, 1945; Dawson, 1954; Dawson, Neushul & Wildman, 1960  
Southern Calif. to Costa Rica; Gulf of Calif.; Galapagos Arch.

*Scinaia latifrons* Howe

Taylor, 1945; Dawson, 1954, 1953, 1960*a*  
Southern Calif. to Puerto Guatulco, Oaxaca; Gulf of Calif.; Galapagos Arch.

*Scinaia minima* Dawson

Dawson, 1954  
Isla Cedros, Baja Calif.

*Scinaia setchellii* Taylor

Taylor, 1945  
Galapagos Arch.

*Pseudoscinaia snyderae* Setchell

Setchell, 1914a; Dawson, 1945b  
San Pedro to San Diego, Calif.

*Whidbeyella cartilaginea* Setchell & Gardner

Scagel, 1957  
Whidbey I., Wash.

*Galaxaura angustifrons* Kjellman

Taylor, 1945  
Galapagos Arch.

*Galaxaura arborea* Kjellman

Dawson, 1954, 1959  
Bahía Santa María, Baja Calif.; southern Gulf  
of Calif.

*Galaxaura barbata* Chou

Taylor, 1945  
Galapagos Arch.

*Galaxaura fastigiata* Decaisne

Dawson, 1954, 1959  
Isla Guadalupe; Bahía Vizcaino, Baja Calif.;  
Gulf of Calif.; Isla María Madre, Nayarit

*Galaxaura filamentosa* Chou

Taylor, 1945; Dawson, 1954, 1957b  
Isla Clarión, Revillagigedo Arch.; Costa Rica;  
Galapagos Arch.

*Galaxaura intermedia* Chou

Taylor, 1945  
Galapagos Arch.

*Galaxaura marginata* Lamouroux

Farlow, 1902  
Galapagos Arch.

*Galaxaura oblongata* (Ellis & Solander) Lamouroux

Taylor, 1945  
Esmeraldas, Ecuador

*Galaxaura ramulosa* Kjellman

Taylor, 1945; Dawson, 1957b  
Golfo Dulce, Costa Rica; Isla Jicarita, Panamá

*Galaxaura spathulata* Kjellman

Taylor, 1945  
Galapagos Arch.

*Galaxaura squalida* Kjellman

Taylor, 1945; Dawson, 1954  
Southeasternmost Baja Calif.; Bahía Honda,  
Panamá

*Galaxaura stupocaula* Chou

Dawson, 1957b  
Costa Rica

*Galaxaura subfruticulosa* Chou

Dawson, 1954  
Punta Palmilla, Baja Calif. del Sur; Isla Clarión,  
Revillagigedo Arch.

*Galaxaura veprecula* Kjellman

Taylor, 1945; Dawson, 1954, 1957b, 1959  
Southern Gulf of Calif.; Costa Rica; Galapagos,  
Arch.

## FAM. BONNEMAISONIACEAE

*Bonnemaisonia nootkana* (Esper) Silva

Scagel, 1957  
Northern British Columbia to Santa Rosa I.,  
Calif.

*Bonnemaisonia geniculata* Gardner

Smith, 1944  
Carmel Bay to Point Sur, Calif.

*Bonnemaisonia hamifera* Hariot

Feldmann & Feldmann, 1942; Dawson, 1954  
(both as the gametophyte generation of  
*Trailiella intricata*); Kylin, 1941 (as *Aspara-*  
*ragopsis hamifera*); Silva, 1957a (as *Bonne-*  
*maisonia intricata*, the alternate generation  
of *Trailiella intricata*)  
Santa Rosa I., Calif., to Punta San Quintín,  
Baja Calif.

*Trailiella intricata* Batters

Scagel, 1957 (as sporophyte generation of  
*Bonnemaisonia*)  
Northern Wash. to central Baja Calif.

*Asparagopsis taxiformis* (Delile) Collins & Hervey

Dawson, 1954, 1957, 1959 (as the gametophyte generation of *Falkenbergia hillebrandii*)

Isla Guadalupe; central Baja Calif.; Rocas Alijos; Revillagigedo Arch.; Gulf of Calif.; Isla Salango, Ecuador; Galapagos Arch.

*Asparagopsis svedelii* Taylor

Taylor, 1945

Galapagos Arch.

*Falkenbergia hillebrandii* (Bornet) Falkenberg  
Dawson, 1954 (as the sporophyte generation of *Asparagopsis taxiformis*)

Isla Guadalupe; Bahía Vizcaino, Baja Calif.; Miramar, Nayarit; Puerto Marqués, Guerrero

#### ORDER GELIDIALES

#### FAM. GELIDIACEAE

*Gelidium arborescens* Gardner

Smith, 1944

Monterey to Cambria, Calif.

*Gelidium cartilagineum* var. *robustum* Gardner

Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960

Southern British Columbia to Isla Magdalena, Baja Calif.

*Gelidium contortum* Loomis

Loomis, 1960

San Francisco; Topanga, Calif.

*Gelidium coronadense* Dawson

Dawson, 1954

Islas Los Coronados, Baja Calif.

*Gelidium coulteri* Harvey

Sanborn & Doty, 1946; Doty, 1947; Dawson, 1954, 1959c

Coos Bay, Oreg., to Isla Magdalena, Baja Calif.

*Gelidium crinale* (Turner) Lamouroux var. *crinale*

Dawson, 1954, 1959c; Scagel, 1957; Taylor, 1945

Southern British Columbia to Isla Magdalena, Baja Calif.; Gulf of Calif.; Mazatlán, Sinaloa; Galapagos Arch.

*Gelidium crinale* var. *luxurians* Collins

Gardner, 1927e; Dawson, 1954

Southern Calif. to Punta Baja, Baja Calif.

*Gelidium deciduum* Dawson

Dawson, 1954

Cabeza Ballena, near San Lucas, Baja Calif.

*Gelidium densum* Gardner

Gardner, 1927e; Dawson, 1959c

Montecito; San Pedro, Calif.

*Gelidium distichum* Loomis

Loomis, 1949

Redondo, Calif.

*Gelidium filicinum* Bory

Taylor, 1945

Galapagos Arch.

*Gelidium gardneri* Loomis

Loomis, 1960

Santa Monica Bay, Calif.

*Gelidium galapagense* Taylor

Taylor, 1945

Galapagos Arch.

*Gelidium hancockii* Taylor

Taylor, 1945 (probably the *G. serrulatum* of Farlow, 1902)

Galapagos Arch.

*Gelidium isabelae* Taylor

Taylor, 1945

Bahía Utria, Colombia; Galapagos Arch.

*Gelidium johnstonii* Setchell & Gardner

Dawson, 1954, 1959

Punta Santa Rosalía; Isla Magdalena, Baja Calif.; Gulf of Calif.

- Gelidium microdentatum* Dawson  
Dawson, 1960a  
San Blas, Nayarit
- Gelidium microphysa* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe; Isla Cedros, Baja Calif.;  
northern Gulf of Calif.
- Gelidium nudifrons* Gardner  
Dawson, 1954; Dawson, Neushul & Wild-  
man, 1960, 1960a  
Southern Calif. to Bahía Tortuga, Baja Calif.
- Gelidium papenfussii* Loomis  
Dawson, 1954  
San Francisco; Santa Monica, Calif.; Punta  
Baja; Punta Santa Rosalía, Baja Calif.
- Gelidium polystichum* Gardner  
Dawson, 1949, 1954  
San Pedro; Santa Catalina I., Calif.; Isla Gua-  
dalupe, Baja Calif.
- Gelidium pulchrum* Gardner  
Kylin, 1941; Sanborn & Doty, 1946; Doty,  
1947; Dawson, 1954, 1959c  
Coos Bay, Oreg., to Bahía Rosario, Baja Calif.
- Gelidium purpurascens* Gardner  
Smith, 1944; Dawson, 1954, 1959c; Dawson,  
Neushul & Wildman, 1960  
Bolinas, Calif., to Cabo Colnett, Baja Calif.
- Gelidium pusillum* (Stackhouse) Le Jolis var.  
*pusillum*  
Smith, 1944; Doty, 1947; Dawson, 1954,  
1954c, 1957b, 1959  
Oreg. to Panamá
- Gelidium pusillum* var. *cylindricum* Taylor  
Taylor, 1945; Dawson, 1953  
Pacific Mexico; Esmeraldas, Ecuador
- Gelidium pusillum* var. *pacificum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Gelidium pusillum* var. *minusculum* Weber van  
Bosse  
Dawson, 1953  
Pacific Mexico
- Gelidium pusillum* var. *mucronatum* Dangeard  
Dawson, 1953  
Pacific Mexico
- Gelidium pusillum* var. *conchicola* Piccone &  
Grunow  
Dawson, 1953  
Pacific Mexico
- Gelidium pusillum* var. *pulvinatum* (C. Agardh)  
Feldmann  
Dawson, 1953  
Pacific Mexico
- Gelidium ramuliferum* Gardner  
Gardner, 1927e; Dawson, 1959c  
Santa Barbara; San Pedro, Calif.
- Gelidium sclerophyllum* Taylor  
Taylor, 1945; Dawson, 1954, 1957b  
Isla Clarión, Revillagigedo Arch.; southern  
Baja Calif. to Golfo Dulce, Costa Rica;  
Esmeraldas; Guayas, Ecuador
- Gelidium setchellii* Gardner  
Gardner 1927e  
Marin Co., Calif.
- Gelidium sinicola* Gardner  
Doty, 1947; Smith, 1944  
South Bay, Oreg.; San Francisco Bay; Mon-  
terey, Calif.
- Gelidium* ? *sonorense* Dawson  
Dawson, 1954  
Near Guaymas, Sonora
- Gelidium undulatum* Loomis  
Loomis, 1960  
Redondo, Calif.
- Gelidium venturianum* Dawson  
Dawson, 1958  
Mussel Shoals, Ventura Co., Calif.



*Pterocladia caloglossoides* (Howe) Dawson

Dawson, 1954; Dawson, Neushul & Wildman, 1960a; Doty, 1947 (as *Gelidium caloglossoides*); Smith, 1944 (as *Gelidium caloglossoides*)

Oreg. ?; Monterey Peninsula, Calif. ?; Southern Calif. to Isla Asunción, Baja Calif.; Barra de Navidad, Jalisco

*Pterocladia complanata* Loomis

Dawson, 1954

Anaheim Landing, Calif.; Punta Descanso; Punta Eugenio, Baja Calif.

*Pterocladia media* Dawson

Dawson, 1958

La Jolla, Calif.

*Pterocladia mcNabbiana* Dawson

Dawson, 1957b

Golfo Dulce, Costa Rica

*Pterocladia musciformis* Taylor

Dawson, 1957b, 1960a

Bahía Carrizal, Colima; Golfo Dulce, Costa Rica

*Pterocladia parva* Dawson

Dawson, 1954

San Felipe, Gulf of Calif.

*Pterocladia pyramidale* (Gardner) Dawson

Dawson, 1954, 1954c, 1957, 1959 (as probably including *Gelidium decompositum*), 1959c; Dawson, Neushul & Wildman, 1960

Southern Calif. to Isla Magdalena, Baja Calif.; Isla Guadalupe; Rocas Alijos; Revillagigedo Arch.; central Gulf of Calif.; Galapagos Arch.; vicinity of Guayas, Ecuador

*Gelidiocolax microsphaerica* Gardner

Dawson, 1954; Fan & Papenfuss, 1959

Balboa, Calif.; Punta Descanso; Isla San Martín, Baja Calif.

## FAM. GELIDIACEAE

*Gelidiella acerosa* (Forsskål) Feldmann & Hamel

Dawson, 1954

Southern Gulf of Calif. to Central America

*Gelidiella adnata* Dawson

Dawson, 1954c

Isla San Benedicto, Revillagigedo Arch.

*Gelidiella hancockii* Dawson

Dawson, 1954, 1959, 1960a

Bahía Magdalena, Baja Calif.; Gulf of Calif.; Isla del Caño, Costa Rica; Isla del Rey, Panamá

*Gelidiella ligutata* Dawson

Dawson, 1954

Southeasternmost Baja Calif.

*Gelidiella machrisiana* Dawson

Dawson, 1957b

Golfo de Nicoya, Costa Rica

*Gelidiella ? refugiensis* Dawson

Dawson, 1954

Isla Ángel de la Guarda; Bahía San Carlos ?, Gulf of Calif.

*Gelidiella stichidiospora* Dawson

Dawson, 1954

Isla Cedros, Baja Calif.

*Gelidiella pannosa* (Feldmann) Feldmann & Hamel

Dawson, 1957b (as *G. tenuissima*)

Costa Rica

## OF UNCERTAIN FAMILY POSITION

*Wurdemannia miniata* (Draparnaud) Feldmann & Hamel

Dawson, 1954, 1957b

Puerto San Carlos, Gulf of Calif. to Panamá

## ORDER CRYPTONEMIALES

## FAM. DUMONTIACEAE

*Dudresnaya colombiana* Taylor

Taylor, 1945  
Isla Gorgona, Colombia

*Cryptosiphonia woodii* (J. Agardh) J. Agardh

Scagel, 1957; Dawson, 1959c  
Unalaska, Alaska, to Venice, Calif.

*Thuretellopsis peggiana* Kylin

Scagel, 1957  
Friday Harbor, Wash.

*Dumontia filiformis* (Lyngbye) J. Agardh

Setchell & Gardner, 1903  
Alaska

*Baylesia plumosa* Setchell

Smith, 1944  
Santa Cruz; Monterey, Calif.

*Pikea californica* Harvey

Dawson, 1954, Scagel, 1957  
Southern British Columbia to Punta Baja,  
Baja Calif.

*Pikea pinnata* Setchell

Scagel, 1957  
Northern Wash. to Coronado, Calif.

*Farlowia compressa* J. Agardh

Scagel, 1957  
Northern Wash. to Carmel, Calif.

*Farlowia mollis* (Harvey & Bailey) Farlow & Setchell

Scagel, 1957; Doty, 1947 (as including *F. crassa*); Dawson, 1959c (as *F. crassa*)  
Dixon Harbor, Alaska, to San Diego, Calif.

*Dilsea californica* (J. Agardh) Schmitz

Scagel, 1957  
Unga I., Alaska, to San Francisco, Calif.

*Dilsea integra* (Kjellman) Rosenvinge

Setchell & Gardner, 1903 (as *Sarcophyllis arctica*)  
Alaska

*Leptocladia binghamiae* J. Agardh

Setchell, 1912; Kylin, 1941; Dawson, 1954;  
Dawson, Neushul & Wildman, 1960; Taylor, 1945  
Santa Cruz, Calif., to Isla Magdalena, Baja Calif.; Galapagos Arch.

*Leptocladia conferta* Setchell

Smith, 1944; Doty, 1947 (as *Pikea nootkana*)  
Crescent City to Carmel Bay, Calif.

*Weeksia fryeana* Setchell

Scagel, 1957  
Northern Wash.

*Weeksia howellii* Setchell & Gardner

Dawson, 1954  
Isla Natividad, Baja Calif.

*Weeksia reticulata* Setchell

Smith, 1944; Dawson, 1945e (but the determination erroneous)  
Monterey Peninsula, Calif.

*Weeksia templetonii* Setchell & Gardner

Dawson, 1954  
Santa Cruz I., Calif.; Isla Cedros, Baja Calif.

*Constantinea rosa-marina* (Gmelin) Postels & Ruprecht

Setchell & Gardner, 1903; Setchell, 1906  
Western Aleutian Islands to Sitka, Alaska

*Constantinea simplex* Setchell

Scagel, 1957  
Northern British Columbia to Carmel, Calif.

*Constantinea subulifera* Setchell

Scagel, 1957  
Northern British Columbia to northern Wash.

## FAM. RHIZOPHYLLIDACEAE

*Ochtodes crockeri* Setchell & Gardner

Taylor, 1945; Dawson, 1957  
Galapagos Arch.

## FAM. GLOIOSIPHONACEAE

- Gloiosiphonia californica* (Farlow) J. Agardh  
Dawson, 1954; Scagel, 1957; Dawson, 1958  
Sitka, Alaska, to Punta Baja, Baja Calif.
- Gloiosiphonia capillaris* (Hudson) Carmichael  
Scagel, 1957  
Southern British Columbia
- Gloiosiphonia verticillaris* Farlow  
Scagel, 1957  
Sitka, Alaska, to Carmel Bay, Calif.

## FAM. ENDOCLADIACEAE

- Gloiopeltis furcata* (Postels & Ruprecht) J. Agardh  
Scagel, 1957  
Aleutian Islands, Alaska, to Oreg.
- Gloiopeltis minuta* Kylin  
Kylin, 1941; Dawson, 1954  
Santa Catalina I., Calif.; Islas San Benito;  
Punta Eugenio, Baja Calif.
- Endocladia muricata* (Postels & Ruprecht) J. Agardh  
Okamura, 1933; Dawson, 1954, 1959c; Scagel, 1957  
Aleutian Islands, Alaska, to Punta Santo Tomás, Baja Calif.

## FAM. SQUAMARIACEAE

- Ethelia mexicana* Dawson  
Dawson, 1954  
Acapulco, Guerrero
- Peyssonelia clarionensis* Taylor  
Taylor, 1945; Dawson, 1954  
Isla Clarión, Revillagigedo Arch.; Galapagos Arch.
- Peyssonelia conchicola* Piccone & Grunow  
Dawson, 1954, 1957b  
Bahía San Lucas, Baja Calif.; Golfo Dulce, Costa Rica

- Peyssonelia guadalupensis* Dawson  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Peyssonelia mexicana* Dawson  
Dawson, 1954  
Cabo Colnett, Baja Calif.; Acapulco, Guerrero
- Peyssonelia pacifica* Kylin  
Dawson, 1954; Scagel, 1957  
San Juan I., Wash., to Isla Cedros, Baja Calif.; Mazatlán, Sinaloa
- Peyssonelia rubra* var. *orientalis* Weber van Bosse  
Dawson, 1954, 1957, 1959; Dawson, Neushul & Wildman, 1960  
Southern Calif. Channel Islands to Miramar, Nayarit; Revillagigedo Arch.; Galapagos Arch.
- Peyssonelia squamaria* (Gmelin) Decaisne  
Dawson, 1954  
San Jose del Cabo, Baja Calif.
- Cruoriella dubyi* (Crouan & Crouan) Schmitz  
Dawson, 1954, 1959c, 1960a  
La Jolla, Calif., to Isla Brincanco, Panamá
- Cruoriella fissurata* Dawson  
Dawson, 1954, 1957b, 1960a  
Guaymas, Sonora, to Isla del Rey, Panamá
- Cruoriella hancockii* Dawson  
Dawson, 1954, 1960a  
Islas San Benito, Baja Calif., to Bahía Santiago, Colima
- Cruoriella magdalena* Dawson  
Dawson, 1954  
Punta Eugenio; Isla Magdalena, Baja Calif.
- Rhododermis elegans* Crouan  
Smith, 1944; Hollenberg, 1948  
Marin Co. to Monterey, Calif.
- Rhododermis georgii* (Batters) Collins  
Doty, 1947  
Cape Arago, Oreg. ?

*Asymmetria expansa* (Setchell & Gardner) Setchell & Gardner  
Smith, 1944  
Monterey, Calif.

## FAM. HILDENBRANDIACEAE

*Hildenbrandia canariensis* var. *dawsonii* Ardré  
Ardré, 1959; Dawson, 1954 (as *H. prototypus*  
var. *kerquelenensis*); Dawson, Neushul &  
Wildman, 1960a  
Central Baja Calif.

*Hildenbrandia galapagensis* Setchell & Gardner  
Setchell & Gardner, 1937  
Galapagos Arch.

*Hildenbrandia occidentalis* Setchell  
Taylor, 1945; Scagel, 1957; Dawson, Neu-  
shul & Wildman, 1960a  
Northern British Columbia to Isla San Ge-  
rónimo, Baja Calif.; Galapagos Arch.

*Hildenbrandia prototypus* Nardo  
Taylor, 1945; Dawson, 1954, 1954c, 1957b,  
1959, 1959c; Scagel, 1957 (in part as *H.*  
*rosea*)  
Alaska to Panamá; Galapagos Arch.

## FAM. CORALLINACEAE

*Archeolithothamnium crosslandi* Lemoine  
Taylor, 1945  
Galapagos Arch.

*Archeolithothamnium howei* Lemoine  
Lemoine, 1929; Dawson, 1960a  
Isla Coiba, Panamá

*Archeolithothamnium zonatosporum* Foslie  
Foslie, 1906; Dawson, 1960a  
Long Beach, Calif. ?

*Sporolithon pacificum* Dawson  
Dawson, 1960a  
Isla del Caño, Costa Rica

*Melobesia galapagensis* (Foslie) Taylor  
Taylor, 1945  
Galapagos Arch.

*Melobesia marginata* Setchell & Foslie  
Scagel, 1957; Dawson, 1959c, 1960  
Southern British Columbia to Bahía Vizcaino,  
Baja Calif.; southern Gulf of Calif.; Re-  
villagigedo Arch.; Costa Rica

*Melobesia mediocris* (Foslie) Setchell & Mason  
Scagel, 1957; Dawson, 1959c, 1960; Dawson,  
Neushul & Wildman, 1960  
Northern British Columbia to Isla Magda-  
lena, Baja Calif.

*Melobesia membranacea* (Esper) Lamouroux  
Dawson, 1960  
Cabeza Ballena, Baja Calif.; Isla San Bene-  
dicto, Revillagigedo Arch.

*Melobesia polystromatica* Dawson  
Dawson, 1960  
Bahía Tenacatita, Jalisco

*Lithothamnium aculeiferum* L. Mason  
Dawson, 1960  
Duxbury Reef, Calif., to Scammon Lagoon,  
Baja Calif.

*Lithothamnium australe* (Foslie) Foslie  
Dawson, 1960  
Isla Guadalupe, Baja Calif., to Bahía Honda,  
Panamá. Gulf of Calif.; Revillagigedo  
Arch.

? *Lithothamnium bisporum* Foslie  
Dawson, 1949  
Santa Catalina I., Calif.

*Lithothamnium californicum* Foslie  
Scagel, 1957; Dawson, 1959c, 1960  
Southern British Columbia to Isla Magdalena,  
Baja Calif.

*Lithothamnium cottoni* Lemoine  
Taylor, 1945  
Galapagos Arch.

*Lithothamnium fruticosum* (Kützinger) Foslie  
Dawson, 1960; Dawson & Beaudette, 1960  
Bodega Bay, Calif., to Bahía Uvita, Costa  
Rica; Islas Revillagigedos; southern Gulf  
of Calif.

- Lithothamnium giganteum* L. Mason  
Dawson, 1960; Dawson, Neushul & Wildman, 1960  
Southern Calif. to central Baja Calif.; Bahía Petatlán, Guerrero; Corinto, Nicaragua ?
- Lithothamnium guadalupensis* Dawson  
Dawson, 1960  
Isla Guadalupe, Baja Calif.
- Lithothamnium heteromorphum* (Foslie) Foslie  
Dawson, 1957b  
Golfo de Nicoya, Costa Rica ?
- ? *Lithothamnium laeve* (Strömfelt) Foslie  
Dawson, 1960  
Vicinity of Isla Cedros, Baja Calif.
- Lithothamnium lamellatum* Setchell & Foslie  
Smith, 1944; Doty, 1947; Dawson, 1960; Dawson, Neushul & Wildman, 1960  
Oreg. to central Baja Calif.
- Lithothamnium lenormandii* (Areschoug) Foslie  
Dawson, 1960  
Throughout Pacific Baja Calif.; northern Gulf of Calif.; Bahía Santiago, Colima; Puerto Guatulco, Oaxaca
- Lithothamnium montereyicum* Foslie  
Smith, 1944; Dawson, 1949; Mason, 1953; Dawson, 1960 (as possibly a form of *L. australe*)  
Monterey; Anacapa I., Calif.
- Lithothamnium muricatum* (Foslie) G. De Toni  
Scagel, 1957  
Port Renfrew, British Columbia
- Lithothamnium pacificum* (Foslie) Foslie  
Scagel, 1957; Dawson, 1960; Taylor, 1945  
Vancouver I., British Columbia, to La Jolla, Calif.; Isla Grande, Guerrero ?; Galapagos Arch. ?
- Lithothamnium phymatodeum* Foslie  
Scagel, 1957  
Whidbey I., Wash., to Pacific Grove, Calif.
- Lithothamnium pocillum* Lemoine  
Taylor, 1945  
Galapagos Arch.
- Lithothamnium volcanum* Dawson  
Dawson, 1960  
Santa Cruz I., Calif.; Cortez Bank; Isla Magdalena, Baja Calif.
- Polyporolithon conchatum* (Setchell & Foslie) L. Mason  
Scagel, 1957  
Southern British Columbia to Cambria, Calif.
- Polyporolithon parcum* (Setchell & Foslie) L. Mason  
Scagel, 1957  
San Juan I., Wash., to Carmel, Calif.
- Polyporolithon reclinatum* (Foslie) L. Mason  
Scagel, 1957  
Vancouver I., British Columbia, to La Jolla, Calif.
- Clathromorphum compactum* (Kjellman) Foslie  
Mason, 1953  
St. Michael, Norton Sound, Alaska
- Clathromorphum circumscriptum* (Strömfelt) Foslie  
Mason, 1953  
Aleutian I. to Unalaska, Alaska
- Hydrolithon arenicolum* Dawson  
Dawson, 1960  
Scammon Lagoon, Baja Calif.
- Hydrolithon conicum* Dawson  
Dawson, 1960  
Isla Socorro, Revillagigedo Arch.
- Hydrolithon reinboldii* (Weber van Bosse & Foslie) Foslie  
Dawson, 1960  
Revillagigedo Arch.
- Hydrolithon setchellii* (Foslie) Setchell & L. Mason  
Dawson, 1960  
Redondo to La Jolla, Calif.; Isla Guadalupe, Baja, Calif.

- Fosliella farinosa* (Lamouroux) Howe  
Dawson, 1960  
Isla Guadalupe; southern Baja Calif.; Islas  
Tres Marias to Acapulco, Guerrero
- Fosliella* (?) *minuta* Taylor  
Taylor, 1945  
Bahía Honda, Panamá; Guayas, Ecuador
- Fosliella paschalis* (Lemoine) Setchell & Gard-  
ner  
Dawson, 1959*b*, 1960  
Isla Guadalupe, Baja Calif.; Isla Ildefonso;  
Punta Palmilla, Gulf of Calif.; Clipperton I.
- Goniolithon tessellatum* (Lemoine) Setchell &  
L. Mason  
Setchell & Mason, 1943; Dawson, 1960*a*  
Islas Contreras, Panamá; Galapagos Arch.
- Dermatolithon canescens* (Foslie) Foslie  
Dawson, 1957*b*, 1960  
Isla Guadalupe; Bahía Vizcaino, Baja Calif.;  
central Gulf of Calif.; Mazatlán, Sinaloa;  
Costa Rica
- Dermatolithon corallinae* (Crouan & Crouan)  
Foslie  
Dawson, 1960  
Santa Catalina I., Calif.; Cabeza Ballena, Baja  
Calif.; Bahía Tenacatita, Jalisco
- Dermatolithon dispar* (Foslie) Foslie  
Scagel, 1957; Dawson, 1960; Dawson, Neu-  
shul & Wildman, 1960  
Northern Wash. to La Jolla, Calif.; Cabeza  
Ballena, Baja Calif.; near Guaymas, Sonora
- Dermatolithon pustulatum* (Lamouroux) Foslie  
f. *pustulatum*  
Dawson, 1957  
Galapagos Arch.
- Dermatolithon pustulatum* f. *ascripticum* (Fos-  
lie) Foslie ex De Toni  
Dawson, 1959*c* (as *D. ascripticum*), 1960;  
Taylor, 1945 (as *Lithophyllum mutabile*)  
Coos Bay, Oreg., to Bahía Ballena, Costa  
Rica; Revillagigedo Arch.; Galapagos Arch.
- Dermatolithon saxicolum* (Lemoine) Setchell &  
L. Mason  
Setchell & Mason, 1943  
Isla Cocos, Costa Rica
- Dermatolithon veleroae* Dawson  
Dawson, 1960  
Bahía Agua Verde, Baja Calif.
- Tenarea erecta* Lemoine  
Taylor, 1945  
Galapagos Arch.
- Porolithon castellum* Dawson  
Dawson, 1960*a*  
Isla del Caño, Costa Rica
- Porolithon cocosicum* Lemoine  
Lemoine, 1929  
Isla Cocos, Costa Rica
- Porolithon oncodes* (Heydrich) Foslie  
Dawson, 1959*b*, 1960*a*  
Isla del Caño, Costa Rica; Clipperton I.
- Porolithon marshallense* Taylor  
Dawson, 1959*b*  
Clipperton I. ?
- Porolithon sonorensis* Dawson  
Dawson, 1960  
Bahía Vizcaino, Baja Calif.; northern Gulf of  
Calif.
- Mesophyllum laxum* Lemoine  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum alternans* Lemoine  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum amplostratum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum* (?) *coibense* Lemoine  
Lemoine, 1929  
Isla Coiba, Panamá

- Lithophyllum complexum* Lemoine  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum decipiens* Foslie  
Scagel, 1957; Dawson, 1957*b*, 1959*c*, 1960  
Northern British Columbia to Guaymas, Sonora; Revillagigedo Arch.; Costa Rica ?; Islas Perlas, Panamá
- Lithophyllum* sp. aff. *L. detrusum* Foslie  
Dawson, 1960  
Isla Cedros, Baja Calif.
- Lithophyllum diguetii* (Hariot) Heydrich  
Dawson, 1960  
Isla Ángel de la Guarda; vicinity of La Paz, Gulf of Calif.
- Lithophyllum* (?) *divaricatum* Lemoine  
Taylor, 1945; Dawson, 1960  
Galapagos Arch.
- Lithophyllum farlowii* Heydrich  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum* (?) *fetum* Foslie  
Lemoine, 1929  
Isla Cocos, Costa Rica
- Lithophyllum frutescens* (Foslie) Lemoine f. *frutescens*  
Taylor, 1945 (possibly the *Lithothamnium calcareum* of Harvey, 1847)  
Galapagos Arch.
- Lithophyllum frutescens* f. *galapagense* Foslie  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum grumosum* (Foslie) Foslie  
Smith, 1944; Doty, 1947; Dawson, 1960  
Capa Arago, Oreg. ?, to Bahía Vizcaino, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.
- Lithophyllum hancockii* Dawson  
Dawson, 1960  
Isla Espíritu Santo, Gulf of Calif.
- Lithophyllum imitans* Foslie  
Dawson, 1960; Dawson, Neushul & Wildman, 1960  
Moss Beach, Calif., to central Baja Calif.; Gulf of Calif.; Revillagigedo Arch.; Puerto Guatulco, Oaxaca
- Lithophyllum intermedium* Foslie  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum lichenare* L. Mason  
Scagel, 1957; Dawson, 1960  
Kanaka Bay, Wash.; Farnsworth Bank, so. Calif.; Punta Banda, Baja Calif.
- Lithophyllum lithophylloides* Heydrich  
Dawson, 1960  
Gulf of Calif.; Isla Clarión, Revillagigedo Arch.
- Lithophyllum* (?) *lividum* Lemoine  
Lemoine, 1929  
Isla Cocos, Costa Rica
- Lithophyllum margaritae* (Hariot) Heydrich  
Dawson, 1960  
Vicinity of La Paz, Gulf of Calif.
- Lithophyllum moluccense* var. *geministratum*  
Taylor  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum neofarlowii* Setchell & L. Mason  
Scagel, 1957; Dawson, 1960  
San Juan Islands, Wash., to Cambria, Calif.; Bahía Asunción, Baja Calif.
- Lithophyllum pallescens* (Foslie) Heydrich  
Dawson, 1960  
Southern Gulf of Calif.; Islas Contreras, Panamá
- Lithophyllum proboscidium* Foslie var. *proboscidium*  
Dawson, 1960  
Bodega Bay, Calif., to Punta Santa Rosalía, Baja Calif.; vicinity of Guaymas, Sonora; Barra de Navidad, Jalisco; Acapulco, Guerrero

- Lithophyllum proboscideum* var. *delicatulum* Dawson  
Dawson, 1960  
Isla Guadalupe, Baja Calif.
- Lithophyllum* (?) *propinquum* var. *cocosica* Lemoine  
Lemoine, 1929  
Isla Cocos, Costa Rica
- Lithophyllum reesei* Dawson  
Dawson, 1960  
Punta Banda, Baja Calif.
- Lithophyllum rileyi* Lemoine  
Taylor, 1945 (as probably equal to the  
*Litothamnium crassum* of Piccone, 1889)  
Galapagos Arch.
- Lithophyllum samoense* Foslie  
Dawson, 1960  
Isla Cedros, Baja Calif.
- Lithophyllum sancti-georgei* Lemoine  
Taylor, 1945  
Galapagos Arch.
- Lithophyllum trichotomum* (Heydrich) Lemoine  
Dawson, 1957, 1960  
Revillagigedo Arch.; Gulf of Calif. to Isla  
Jicarón, Panamá; Galapagos Arch.
- Lithophyllum veleroae* Dawson  
Dawson, 1960  
Isla Espíritu Santo; vicinity of Santa Rosalía,  
Gulf of Calif.
- Lithophyllum whidbeyense* Foslie  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Heteroderma corallinicola* Dawson  
Dawson, 1960  
Guaymas, Sonora
- Heteroderma gibbsii* (Foslie & Setchell) Foslie  
Dawson, 1960  
Gulf of Calif.
- Heteroderma lejolisii* (Rosanoff) Foslie  
Dawson, 1960  
Bahía San Quintín, Baja Calif.
- Heteroderma minutula* Foslie  
Dawson, 1959b, 1960  
Isla Guadalupe; Bahía Tortuga, Baja Calif.;  
Puerto Guatulco, Oaxaca, to Punta Na-  
ranja, Panamá; Clipperton I.
- Heteroderma nicholsii* Setchell & L. Mason  
Dawson, 1960  
Bolinas, Calif., to Punta Abreojos, Baja Calif.
- Heteroderma parvicarpa* Dawson  
Dawson, 1960  
Scammon Lagoon, Baja Calif.
- Heteroderma subtilissima* (Foslie) Foslie  
Dawson, 1960  
Isla Guadalupe, Baja Calif.; southwestern-  
most Gulf of Calif.
- Litholepis accola* Foslie  
Dawson, 1960  
Isla Guadalupe, Baja Calif.; Isla Clarión, Re-  
villagigedo Arch.
- Litholepis fertilis* (Lemoine) Setchell & L. Mason  
Setchell & Mason, 1943  
Isla Coiba, Panamá
- Litholepis sonorensis* Dawson  
Dawson, 1960  
Isla Espíritu Santo, Gulf of Calif.
- Choreonema thuretii* (Bornet) Schmitz  
Taylor, 1945; Hollenberg, 1948; Dawson,  
1949, 1960  
Southern Calif.; Isla Guadalupe to Bahía Viz-  
caino, Baja Calif.; southwestern Gulf of  
Calif.; Revillagigedo; Costa Rica; Gala-  
pagos Arch.
- Corallina bathybentha* Dawson  
Dawson, 1949  
Southern Calif. Channel Islands



- Corallina berterii* Mont. ?  
Farlow, 1902; Lemoine, 1929 (as *Arthrocardia* sp.)  
Galapagos Arch.
- Corallina delicatulus* (Doty) comb. nov.  
Doty, 1947: 167 (as *Joculator delicatulus*)  
Cape Arago, Oreg.
- Corallina gracilis* Lamouroux var. *gracilis*  
Dawson, 1945*b*, 1954, 1959*c*; Dawson, Neushul & Wildman, 1960  
Southern Calif. to Isla Cedros, Baja Calif.
- Corallina gracilis* var. *verticillata* Dawson  
Dawson, 1954  
Santa Catalina I., Calif. ?; Isla Guadalupe,  
Baja Calif.
- Corallina janioides* Dawson  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Corallina officinalis* Linnaeus var. *officinalis*  
Taylor, 1945  
Galapagos Arch.
- Corallina officinalis* var. *chilensis* (Harvey)  
Kützing  
Scagel, 1957; Dawson, 1954, 1959*c*; Dawson, Neushul & Wildman, 1960  
Northern British Columbia to Isla Magdalena, Baja Calif.; Guayas, Ecuador
- Corallina pilulifera* Postels & Ruprecht  
Scagel, 1957 (as to Alaska records only)  
Alaska
- Corallina pinnatifolia* (Manza) Dawson var. *pinnatifolia*  
Dawson, 1954, 1958, 1959*c*; Taylor, 1945 (as *Joculator pinnatifolius*)  
Carpinteria, Calif., to Isla Magdalena, Baja Calif.; Galapagos Arch.
- Corallina pinnatifolia* var. *digitata* Dawson  
Dawson, 1954, 1959  
Throughout the Gulf of Calif.
- Corallina polysticha* Dawson  
Dawson, 1954, 1959  
Santa Catalina I., Calif., to Bahía Vizcaino, Baja Calif.
- Corallina vancouveriensis* Yendo var. *vancouveriensis*  
Dawson, 1954, 1959*c*, 1960*a*; Scagel, 1957; Dawson, Neushul & Wildman, 1960  
Southern British Columbia to Punta Lobos, near Todos Santos, Baja Calif.
- Corallina vancouveriensis* var. *densa* Yendo  
Dawson, 1953  
Northern part of the range of the species.
- Corallina vancouveriensis* var. *aculeata* (Yendo) Dawson  
Dawson, 1954.  
Throughout the range of the species.
- Corallina vancouveriensis* var. *lycopodioides* (Taylor) Dawson  
Dawson, 1954  
Southern Calif. and Baja Calif.
- Serraticardia macmillani* (Yendo) Silva 1957  
Scagel, 1957; Silva, 1957  
Vancouver I., British Columbia; Fort Ross; Pescadero Point, Calif.
- Cheilosporum planiusculum* (Kützing) Yendo  
Yendo, 1902  
Port Renfrew, Vancouver I., British Columbia
- Cheilosporum frondescens* (Postels & Ruprecht) Yendo f. *frondescens*  
Yendo, 1902  
Port Renfrew, Vancouver I., British Columbia
- Cheilosporum frondescens* f. *maxima* Yendo  
Yendo, 1902  
Port Renfrew, Vancouver I., British Columbia
- Cheilosporum frondescens* f. *intermedia* Yendo  
Yendo, 1902  
Port Renfrew, Vancouver I., British Columbia

- Cheilosporum frondescens* f. *polymorpha* Yendo  
Yendo, 1902  
Port Renfrew, Vancouver I., British Columbia
- Pachyarthron cretaceum* (Postels & Ruprecht)  
Manza  
Scagel, 1957  
Unalaska, Alaska, to northern Wash.
- Litothrix aspergillum* J. E. Gray  
Dawson, 1954, 1959c; Scagel, 1957; Dawson,  
Neushul & Wildman, 1960  
Vancouver I., British Columbia, to Isla Mag-  
dalena, Baja Calif.
- Bossiella californica* (Decaisne) Silva  
Scagel, 1957  
Southern British Columbia to Monterey, Calif.
- Bossiella corymbifera* (Manza) Silva  
Scagel, 1957  
Vancouver I., British Columbia, to Point Lo-  
bos, Calif.
- Bossiella cooperi* (Dawson & Silva) Silva  
Silva, 1957  
Southern Calif. Channel Islands to Punta Baja,  
Baja Calif.
- Bossiella dichotoma* (Manza) Silva var. *dicho-  
toma*  
Dawson, 1954, 1959c, 1960a; Scagel, 1957  
Southern British Columbia to Punta Thurloe,  
Baja Calif.
- Bossiella dichotoma* var. *gardneri* (Manza)  
Dawson  
Dawson, 1960a, 1954 (as *Bossea gardneri*);  
Silva, 1957 (as *Bossiella gardneri*); Daw-  
son, 1959c (as *Bossiella dichotoma-gard-  
neri* complex); Dawson, Neushul & Wild-  
man, 1960 (as *Bossiella gardneri*)  
Oreg. to Punta María, Baja Calif.
- Bossiella insularis* (Dawson & Silva) Silva  
Silva, 1957; Dawson, 1958, 1959c  
Southern Calif. Channel Islands; Port Hue-  
neme, Calif., to Bahía Asunción, Baja,  
Calif.
- Bossiella interrupta* (Manza) Silva  
Silva, 1957  
Pacific Grove, Calif.
- Bossiella ligulata* (Dawson) Silva  
Silva, 1957; Dawson, 1958, 1959c  
Ventura Co., Calif.; Isla Guadalupe, Baja  
Calif.
- Bossiella orbigniana* (Decaisne) Silva  
Doty, 1947 (as *Bossea orbigniana*); Dawson,  
1954 (as *Bossea orbigniana*); Silva, 1957;  
Dawson, 1959c; Dawson, Neushul & Wild-  
man, 1960  
Cape Arago, Oreg. to Isla Cedros, Baja Calif.
- Bossiella pachyclada* (Taylor) Silva  
Dawson, 1954 (as *Bossea pachyclada*); Silva,  
1957  
Santa Cruz I., Calif., to Isla Cedros, Baja Calif.
- Bossiella plumosa* (Manza) Silva  
Scagel, 1957; Dawson, 1959c  
Vancouver I., British Columbia, to Govern-  
ment Point, Calif.
- Bossiella sagitata* (Dawson & Silva) Silva  
Silva, 1957; Dawson, 1958, 1959c  
Southern Calif. Channel Islands; Port Hue-  
neme, Calif.; Islas Coronados; Punta Eu-  
genio, Baja Calif.
- Jania adhaerens* Lamouroux, prox.  
Taylor, 1945  
Esmeraldas, Ecuador
- Jania arborescens* Yendo, prox. ?  
Taylor, 1945  
Guayas, Ecuador
- Jania capillacea* Harvey  
Taylor, 1945; Dawson, 1954, 1957, 1957b,  
1959, 1959b  
Isla Cedros, Baja Calif., to Guayas, Ecuador;  
Galapagos Arch.
- Jania decussato-dichotoma* (Yendo) Yendo  
Dawson, 1954, 1959  
La Jolla, Calif.; southern Gulf of Calif.

*Jania longiartbra* Dawson

Dawson, 1954, 1957*b*, 1959, 1959*b*  
Southern Gulf of Calif.; Golfo de Nicoya,  
Costa Rica; Clipperton I.

*Jania mexicana* Taylor

Dawson, 1954  
Mazatlán, Sinaloa, to Salina Cruz, Oaxaca

*Jania natalensis* Harvey

Dawson, 1954, 1958, 1959*c*  
Lechuza Point, southern Calif., to Isla Cedros,  
Baja Calif.

*Jania subpinnata* Dawson

Dawson, 1954  
Bahía de La Paz, Gulf of Calif.

*Jania tenella* Kützinger var. *tenella*

Dawson, 1954, 1954*c*, 1957, 1957*b*, 1959,  
1959*b*, 1959*c*  
Southern Calif. to Costa Rica; Clipperton I.

*Jania tenella* var. *zacae* Dawson

Dawson, 1954, 1957*b*  
Bahía Vizcaino, Baja Calif.; Isla Ildefonso,  
Gulf of Calif.; Costa Rica

*Jania ungulata* Yendo, prox.

Taylor, 1945  
Galapagos Arch.; Guayas, Ecuador

*Amphiroa annulata* Lemoine var. *annulata*

Dawson, 1954, 1957, 1957*b*, 1959  
Central Baja Calif.; Southern Gulf of Calif.  
to Costa Rica; Galapagos Arch.

*Amphiroa annulata* var. *pinnata* Dawson

Dawson, 1954, 1957*b*  
Cape district, Baja Calif.; Golfo Dulce, Costa  
Rica?

*Amphiroa beauvoisii* Lamouroux

Dawson, 1957*b*  
Costa Rica

*Amphiroa brevianiceps* Dawson

Dawson, 1954; Dawson, Neushul & Wild-  
man, 1960*a*  
Punta San Hipólito, Baja Calif.; Guaymas ?,  
Punta Frailes ?, Gulf of Calif.; Salina Cruz,  
Oaxaca

*Amphiroa compressa* Lemoine

Taylor, 1945 (as probably equal to the *A.*  
*dilatata* of Farlow, 1902)  
Galapagos Arch.

*Amphiroa crossiandii* Lemoine

Dawson, 1954, 1957  
Rocas Alijos, Baja Calif.; Isla Socorro, Revil-  
lagigedo Arch. ?; Tangola-Tangola, Oaxaca;  
Isla Gorgona, Colombia

*Amphiroa dimorpha* Lemoine var. *dimorpha*

Dawson, 1954, 1954*c*, 1957*b*, 1959; Dawson,  
Neushul & Wildman, 1960, 1960*a*; Taylor,  
1945  
Central Pacific Baja Calif. to Central Amer-  
ica; Gulf of Calif.; Islas Revillagigedos;  
Galapagos Arch.

*Amphiroa dimorpha* var. *digitiforme* Dawson

Dawson, 1959  
Isla Carmén; Isla Ildefonso, Gulf of Calif.

*Amphiroa drouetii* Dawson

Dawson, 1954, 1959  
Central and southern Gulf of Calif.

*Amphiroa foliacea* Lamouroux

Dawson, 1954  
Punta Verlero, Bahía Vizcaino, Baja Calif.;  
Isla María Magdalena, Nayarit

*Amphiroa epiphlegmoides* J. Agardh, in Harvey

Harvey, 1862  
Fuca Strait, Wash.

*Amphiroa franciscana* Taylor var. *franciscana*

Dawson, 1954  
Isla Guadalupe, Baja Calif.; Isla María Mag-  
dalena, Nayarit; Esmeraldas; Guayas, Ecua-  
dor

*Amphiroa franciscana* var. *robusta* Dawson

Dawson, 1954  
Bahía Agua Verde, Gulf of Calif.; Acapulco,  
Guerrero

*Amphiroa galapagensis* Taylor

Taylor, 1945  
Galapagos Arch.

*Amphiroa magdalenensis* Dawson

Dawson, 1954, 1959  
Isla Guadalupe; Isla Magdalena, Baja Calif.;  
southern Gulf of Calif.

*Amphiroa mexicana* Taylor

Dawson, 1954  
Morro de Petatlán, Guerrero; Salina Cruz,  
Oaxaca

*Amphiroa minutissima* Taylor

Dawson, 1957b  
Golfo Dulce, Costa Rica

*Amphiroa peruana* Areschoug

Taylor, 1945  
Galapagos Arch.

*Amphiroa subcylindrica* Dawson

Dawson, 1954, 1959  
Gulf of Calif.; Barra de Navidad, Jalisco

*Amphiroa taylorii* Dawson

Dawson, 1954, 1954c, 1957b, 1959  
Revillagigedo Arch.; southern Gulf of Calif.;  
Isla María Magdalena, Nayarit; Costa Rica

*Amphiroa tuberculosa* (Postels & Ruprecht)  
Endlicher

Yendo, 1902  
Port Renfrew, British Columbia

*Amphiroa vanbosseae* Lemoine

Taylor, 1945  
Galapagos Arch.

*Amphiroa zonata* Yendo

Taylor, 1945 (as *A. peninsularis*); Dawson,  
1954, 1959c; Dawson, Neushul & Wild-  
man, 1960  
Santa Catalina I., Calif., to Isla Magdalena,  
Baja Calif.; Gulf of Calif.; Isla María  
Madre, Nayarit; Esmeraldas, Ecuador

*Arthrocardia tuberculosa* Weber van Bosse

Lemoine, 1929 (as equal to the *Amphiroa*  
*orbigniana* of Farlow, 1902)  
Galapagos Arch.

*Calliarthron chielosporioides* Manza

Smith, 1944; Dawson, 1954; Dawson, Neu-  
shul & Wildman, 1960  
Bolinás, Calif., to Isla Cedros, Baja Calif.

*Calliarthron regenerans* Manza

Scagel, 1957; Dawson, Neushul & Wildman,  
1960, 1960a  
Vancouver I., British Columbia, to Isla San  
Geronimo, Baja Calif.

*Calliarthron setchelliae* Manza

Smith, 1944  
Moss Beach; Monterey, Calif.

*Calliarthron schmittii* Manza

Dawson, 1949; Scagel, 1957  
San Juan I., Wash.; Tanner Bank; San Diego,  
Calif.

## FAM. DERMOCORYNIDACEAE

*Dermocorynus occidentalis* Hollenberg

Dawson, 1954  
Los Angeles Co., Calif., to Punta Banda, Baja  
Calif.

## FAM. CRYPTONEMIACEAE

*Grateloupia abbreviata* Kylin

Hollenberg, 1948; Dawson, 1954, 1959c  
Southern Calif.

*Grateloupia avalonae* Dawson

Dawson, 1949  
Catalina I., Calif.

- Grateloupia dactylifera* Dawson  
Dawson, 1954  
Near Guaymas; Isla Espíritu Santo, Gulf of Calif.
- Grateloupia filicina* (Lamour.) C. Agardh  
Dawson, 1954  
Northern Baja Calif. to San Blas, Nayarit; Gulf of Calif.
- Grateloupia hancockii* Dawson  
Dawson, 1954  
Kino; vicinity of Guaymas, Gulf of Calif.
- Grateloupia howeii* Setchell & Gardner  
Dawson, 1954, 1959; Dawson, Neushul & Wildman, 1960  
Islas San Benito to Isla Magdalena, Baja Calif.; Puerto Libertad, Sonora, to Mazatlán, Sinaloa
- Grateloupia* (?) *johnstonii* Setchell & Gardner  
Dawson, 1954  
Isla Ángel de la Guarda, Gulf of Calif.
- Grateloupia maxima* (Gardner) Kylin  
Doty, 1947; Dawson, 1954; Dawson, Neushul & Wildman, 1960a  
Capa Arago region, Oreg., to Isla Asunción, Baja Calif.
- Grateloupia multiphylla* Dawson  
Dawson, 1954  
Islas San Benito to Isla Magdalena, Baja Calif.
- Grateloupia pinnata* (Postels & Ruprecht) Setchell  
Scagel, 1957  
Sitka, Alaska, to northern Wash.
- Grateloupia prolongata* J. Agardh  
Dawson, 1954, 1958, 1959, 1959c  
Gaviota, Calif., to southern Mexico
- Grateloupia schizophylla* Kützing  
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960; Scagel, 1957 (as *G. californica*)  
Southern British Columbia to Isla Magdalena, Baja Calif.
- Grateloupia setchellii* Kylin  
Doty, 1947  
Oreg.; Monterey, Calif.
- Grateloupia* (?) *squarrulosa* Setchell & Gardner  
Dawson, 1944  
Isla Smith, Gulf of Calif.
- Grateloupia versicolor* (J. Agardh) J. Agardh  
var. *versicolor*  
Dawson, 1954, 1954c, 1959  
Isla Magdalena, Baja Calif., to Salina Cruz, Oaxaca; southern Gulf of Calif.
- Grateloupia versicolor* var. *prostrata* Dawson  
Dawson, 1954c  
Isla San Benedicto, Revillagigedo Arch.
- Grateloupia violacea* (Setchell & Gardner) Dawson  
Dawson, 1961  
Northern Gulf of Calif.
- Cryptonemia angustata* (Setchell & Gardner) Dawson  
Dawson, 1954, 1958; Dawson, Neushul & Wildman, 1960; Dawson, 1960a  
La Jolla, Calif., to southern Baja Calif.; Bahía Tepoca, Sonora; Isla Socorro, Revillagigedo Arch.; Bahía Culebra, Costa Rica
- Cryptonemia borealis* Kylin  
Scagel, 1957  
Southern British Columbia to Oreg.
- Cryptonemia decolorata* Taylor  
Dawson, 1954  
Isla María Magdalena, Nayarit
- Cryptonemia guaymasensis* (Dawson) Dawson  
Dawson, 1954, 1960a  
Isla Patos to Bahía San Lucas, Gulf of Calif.; Bahía Culebra, Costa Rica
- Cryptonemia obovata* J. Agardh  
Kylin, 1925; Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960, 1960a  
Prince William Sound, Alaska, to Bahía Tortuga, Baja Calif.

- Cryptonemia ovalifolia* Kylin  
Scagel, 1957  
Northern Wash. to Pacific Grove, Calif.
- Cryptonemia peltata* Dawson, Neushul & Wildman  
Dawson, Neushul & Wildman, 1960a  
Punta Eugenio, Baja Calif.
- Cryptonemia veleroae* (Dawson) Dawson  
Dawson, 1954  
Guaymas, Sonora
- Aeodes* (?) *ecuadoreana* Taylor  
Taylor, 1945  
Galapagos Arch.
- Aeodes gardneri* Kylin  
Scagel, 1957  
Southern British Columbia to San Pedro, Calif.
- Carpopeltis bushiae* (Farlow) Kylin  
Kylin, 1941; Dawson, 1954, 1959c (all as *Polyopes bushiae*); Dawson, 1959; Dawson, Neushul & Wildman, 1960; 1960a  
Southern Calif. to Punta Abreojos, Baja Calif.
- Carpopeltis clarionensis* (Setchell & Gardner) Dawson  
Dawson, 1954 (as *Polyopes clarionensis*); Dawson, 1959  
Isla Clarión, Revillagigedo Arch.
- Carpopeltis divaricata* Okamura  
Dawson, Neushul & Wildman, 1960a  
Punta San Hipólito; Isla Magdalena, Baja Calif.
- Carpopeltis stella-polaris* Dawson  
Dawson, 1959  
Isla Ildefonso, Gulf of Calif.
- Pachymenia saxicola* Taylor  
Taylor, 1945  
Galapagos Arch.
- Halymenia abyssicola* Dawson  
Dawson, 1954  
Isla Partida, Gulf of Calif.
- Halymenia actinophysa* Howe  
Dawson, 1954, 1960a  
Throughout Gulf of Calif.; Revillagigedo Arch.; Bahía Salinas, Costa Rica
- Halymenia agardhii* G. DeToni  
Dawson, 1954; Dawson, Neushul & Wildman, 1960a  
Isla Asunción, Baja Calif.; Isla María Magdalena, Nayarit
- Halymenia bifida* Dawson  
Dawson, 1954  
Bahía de San Lucas, Baja Calif.
- Halymenia californica* Smith & Hollenberg  
Dawson, 1954; Scagel, 1957  
Northern Wash.; Monterey Peninsula, Calif.; Punta María, Baja Calif.
- Halymenia megaspora* Dawson  
Dawson, 1954  
Canal de San Lorenzo, Gulf of Calif.
- Halymenia santamariae* Taylor  
Taylor, 1945  
Galapagos Arch.
- Halymenia utriana* Taylor  
Taylor, 1945  
Bahía Utria, Colombia
- Prionitis abbreviata* Setchell & Gardner var. *abbreviata*  
Taylor, 1945; Dawson, 1954 (as *Zanardinula abbreviata*), 1959  
Throughout the Gulf of Calif.; Galapagos Arch.
- Prionitis abbreviata* var. *guaymasensis* (Dawson) Dawson  
Dawson, 1954 (as *Zanardinula abbreviata* var. *guaymasensis*), 1959  
Throughout the Gulf of Calif. south to Isla San Pedro Nolasco

- Prionitis acroidalea* (Setchell & Gardner) comb. nov.  
Setchell & Gardner, 1924: 781 (as *Gratelou-  
pia acroidalea*); Dawson, 1954 (as *Zanardinula acroidalea*)  
Kina, Sonora, to La Paz, Baja Calif.; Galapa-  
gos Arch.
- Prionitis albemarlensis* Taylor  
Taylor, 1945  
Galapagos Arch.
- Prionitis andersoniana* Eaton ex J. Agardh  
Sanborn & Doty, 1946; Doty, 1947; Dawson,  
1945*b*, 1954 (as *Zanardinula andersoni-  
ana*), 1959*c*; Dawson, Neushul & Wild-  
man, 1960  
Coos Bay, Oreg., to Punta María, Baja Calif.
- Prionitis australis* (J. Agardh) J. Agardh  
Smith, 1944; Papenfuss, 1944 (as *Zanardi-  
nula australis*)  
Monterey, Calif.
- Prionitis cornea* (Okamura) Dawson  
Smith, 1944 (as *Prionitis linearis*); Dawson,  
1954 (as *Zauardinula cornea*); Papenfuss,  
1944 (as *Zanardinula linearis*); Dawson,  
1958, 1959*c*; Dawson, Neushul & Wild-  
man, 1960  
San Mateo Co., Calif., to Isla San Roque, Baja  
Calif.
- Prionitis delicatula* (Taylor) comb. nov.  
Taylor, 1945: 210 (as *Prionitis filiformis* f.  
*delicatula*); Dawson, 1954 (as *Zanardi-  
nula delicatula*)  
Central Pacific Baja Calif. south to Isla Mag-  
dalena
- Prionitis filiformis* Kylin  
Doty, 1947 (as *Zanardinula filiformis*); Daw-  
son, Neushul & Wildman, 1960*a*  
Cape Arago, Oreg., to central Calif.; Punta  
Abrejos, Baja Calif.
- Prionitis galapagensis* Taylor  
Taylor, 1945  
Galapagos Arch.
- Prionitis hancockii* Taylor  
Taylor, 1945  
Galapagos Arch.
- Prionitis lanceolata* (Harvey) Harvey  
Dawson, 1954 (as *Zanardinula lanceolata*);  
Scagel, 1957; Dawson, 1959*c*; Dawson,  
Neushul & Wildman, 1960  
Southern British Columbia to Isla Cedros,  
Baja Calif.
- Prionitis lyallii* Harvey  
Scagel, 1957; Dawson, 1954 (as *Zanardinula  
lyallii* var. ?)  
Southern British Columbia to Carmel Bay,  
Calif.; vicinity of Guaymas, Sonora ?
- Prionitis mexicana* Dawson  
Dawson, 1954 (as *Zanardinula mexicana*)  
Southern Baja Calif.
- Prionitis vizcainensis* (Dawson) Dawson, Neu-  
shul & Wildman  
Dawson, 1954 (as *Zanardinula vizcainensis*);  
Dawson, Neushul & Wildman, 1960*a*  
Bahía Vizcaino, Baja Calif.
- Lobocolax deformans* Howe  
Doty, 1947; Dawson, 1954  
Oreg. to central Baja Calif.

## FAM. KALLYMENIACEAE

- Kallymenia latiloba* Taylor  
Taylor, 1945  
Galapagos Arch.
- Kallymenia multiloba* Taylor  
Taylor, 1945  
Galapagos Arch.
- Kallymenia oblongifruca* Setchell  
Scagel, 1957  
Sitka; Seldovia, Alaska, to Puget Sound,  
Wash.
- Kallymenia ornata* (Postels & Ruprecht) J.  
Agardh  
Scagel, 1957  
Yakutat Bay, Alaska, to Vancouver I., British  
Columbia

- Kallymenia pacifica* Kylin  
Kylin, 1956 (as *Callymenia*); Dawson, Neushul & Wildman, 1960a  
La Jolla, Calif.; Punta Eugenio, Baja Calif.
- Kallymenia* (?) *pertusa* Setchell & Gardner  
Dawson, 1954 (as *Callymenia*)  
Isla San Pedro Mártir, Gulf of Calif.
- Kallymenia reniformis* (Turner) J. Agardh f. *reniformis*  
Scagel, 1957  
Southern British Columbia
- Kallymenia reniformis* f. *cuneata* J. Agardh  
Setchell & Gardner, 1903  
Unalaska; Morzhovoi Bay, Alaska
- Kallymenia setchellii* Taylor  
Taylor, 1945  
Galapagos Arch.
- Pugetia fragilissima* Kylin  
Scagel, 1957  
Southern British Columbia to Monterey, Calif.
- Callophyllis acrocarpa* Setchell  
Dawson, 1954a  
Santa Cruz to Santa Barbara, Calif.
- Callophyllis crassifolia* Setchell & Swezy  
Dawson, 1954a  
San Mateo Co. to Carmel, Calif.
- Callophyllis crenulata* Setchell  
Scagel, 1957  
Northern British Columbia to Pacific Grove, Calif.
- Callophyllis dissecta* Setchell & Swezy  
Dawson, 1954  
San Pedro, Calif., to Punta San Quintín, Baja Calif.
- Callophyllis edentata* Kylin  
Scagel, 1957  
Hope I., British Columbia, to Oreg.
- Callophyllis filicina* Setchell & Swezy  
Dawson, 1954a  
Southern Calif.; Islas San Benito, Baja Calif.
- Callophyllis firma* (Kylin) Norris  
Scagel, 1957  
Northern British Columbia to Monterey, Calif.
- Callophyllis flabellulata* Harvey  
Scagel, 1957  
Northern British Columbia to Coos Bay, Oreg.
- Callophyllis gardneri* Setchell  
Dawson, 1954a  
Santa Rosa I., Calif., to Bahía Vizcaino, Baja Calif.
- Callophyllis beanophylla* Setchell  
Scagel, 1957  
Southern British Columbia to Coos Bay, Oreg.
- Callophyllis* (?) *ligulata* Taylor  
Taylor, 1945  
Isla Gorgona, Colombia; Galapagos Arch.
- Callophyllis marginifruca* Setchell & Swezy  
Scagel, 1957; Dawson, 1954; Dawson, Neushul & Wildman, 1960, 1960a  
Northern Wash. to Sacramento Reef, Baja Calif.
- Callophyllis megalocarpa* Setchell & Swezy  
Dawson, 1954; Scagel, 1957  
Northern Wash. to Isla Magdalena, Baja Calif.
- Callophyllis obtusifolia* J. Agardh  
Dawson, 1954, 1959c  
Santa Cruz, Calif., to Punta Santa Rosalía, Baja Calif.
- Callophyllis odontalioides* Setchell  
Dawson, 1954a  
Santa Cruz to San Diego, Calif.
- Callophyllis oregona* Doty  
Doty, 1947  
North Bay and Brookings, Oreg.



- Callophyllis phylloaptera* Dawson  
Dawson, 1954  
Punta Descanso to Isla Magdalena, Baja Calif.
- Callophyllis pinnata* Setchell & Swezy  
Dawson, 1954a  
Oreg. to Punta Baja, Baja Calif.
- Callophyllis plumosa* Setchell & Swezy  
Dawson, 1954a, 1959c  
San Pedro to La Jolla, Calif.
- Callophyllis stenophylla* Setchell  
Dawson, 1949, 1954a  
Bolinas; Santa Cruz I., Calif.
- Callophyllis thompsonii* Setchell  
Scagel, 1957  
Northern Wash.
- Callophyllis violacea* J. Agardh var. *violacea*  
Doty, 1947; Dawson, 1954a, 1959c; Dawson,  
Neushul & Wildman, 1960, 1960a  
Oreg.; Santa Barbara, Calif., to Isla Asunción,  
Baja Calif.
- Callophyllis violacea* var. *epiphytica* Dawson  
Dawson, 1954, 1957  
Central Baja Calif.; Rocas Alijos
- Callocolax fungiformis* Kylin  
Scagel, 1957  
Northern Wash.
- Callocolax globulosis* Dawson  
Scagel, 1957  
Northern Wash.; San Diego, Calif.
- Erythrophyllum delesserioides* J. Agardh  
Scagel, 1957  
Hope I., British Columbia, to San Luis Obispo  
Co., Calif.
- Erythrophyllum gmelini* (Grunow) Yendo  
Okamura, 1933; Setchell & Gardner, 1903 (as  
*Callymenia gmelini*)  
Atka to Agattu I., Aleutian Islands, Alaska
- Erythrophyllum splendens* Doty  
Doty, 1947  
Cape Arago, Oreg.
- Euthora cristata* (Linnaeus) J. Agardh  
Setchell & Gardner, 1903  
Shumagin I. to Cook Inlet, Alaska
- Euthora fruticulosa* (Ruprecht) J. Agardh  
Okamura, 1933; Scagel, 1957  
Bering Sea to northern Wash.
- FAM. CHOREOCOLACEAE
- Choreocolax polysiphoniae* Reinsch  
Dawson, 1954; Scagel, 1957  
Sitka, Alaska, to Cabo Colnett, Baja Calif.
- ORDER GIGARTINALES
- FAM. CRUORIIACEAE
- Cruoria pacifica* Kjellman  
Hollenberg, 1948  
Southern Calif.
- Cruoria profunda* Dawson  
Dawson, 1961  
Cortez Bank, off U.S.-Mexico boundary
- Haematocelis rubens* J. Agardh  
Dawson, 1954, 1961  
La Jolla, Calif., to Isla Magdalena, Baja Calif.
- Cruoriopsis mexicana* Dawson  
Dawson, 1954, 1957b, 1960a, 1961  
Islas Coronados, Baja Calif.; San Felipe, Gulf  
of Calif.; Golfo Dulce, Costa Rica
- Petrocelis anastomosans* Dawson  
Dawson, 1961  
Salina Cruz, Oaxaca
- Petrocelis ascendens* Dawson  
Dawson, 1961  
Bahía Rosario, Baja Calif.

*Petrocelis franciscana* Setchell & Gardner  
Dawson, 1954, 1959c; Scagel, 1957; Dawson,  
1961  
Northern Wash. to Los Angeles Co., Calif.;  
Cabo Colnett, Baja Calif.

*Petrocelis haematis* Hollenberg  
Hollenberg, 1943  
Southern Calif.

*Petrocelis middendorffii* (Ruprecht) Kjellman  
Scagel, 1957  
Bering Sea to Whidbey Is., Wash.

## FAM. NEMASTOMACEAE

*Schizymenia epiphytica* (Setchell & Lawson)  
Smith & Hollenberg  
Smith, 1944; Papenfuss, 1944a  
Monterey Peninsula, Calif.

*Schizymenia pacifica* (Kylin) Kylin  
Scagel, 1957; Dawson, 1954, 1959c, 1961  
Unga I., Alaska, to Isla Magdalena, Baja Calif.

*Predaea masonii* (Setchell & Gardner) J. De  
Toni  
Dawson, 1954; Feldmann, 1942; Dawson,  
1961  
Isla Guadalupe, Baja Calif.; Isla Clarión, Re-  
villagigedo Arch.; southern Gulf of Calif.

*Predaea subpeltata* Dawson  
Dawson, 1961  
Puerto Guatulco, Oaxaca

*Platoma fanii* Dawson  
Dawson, 1961  
Isla San Esteban, Gulf of Calif.

## FAM. SEBDENIACEAE

*Sebdenia rubra* Taylor  
Taylor, 1945  
Galapagos Arch.

## FAM. SOLIERIACEAE

*Turnerella mertensiana* (Postels & Ruprecht)  
Schmitz  
Scagel, 1957  
Shumagin I., Alaska, to northern Wash.

*Eucheuma uncinatum* Setchell & Gardner  
Dawson, 1961  
Isla Ángel de la Guarda, Gulf of Calif., to  
Mazatlán, Sinaloa

*Agardhiella tenera* (J. Agardh) Schmitz  
Dawson, 1959c (as *A. coulteri*), 1961  
Queen Charlotte Str., British Columbia, to  
Revillagigedo Arch.; Northern Gulf of  
Calif.; Galapagos Arch.

*Gardneriella tuberifera* Kylin  
Hollenberg, 1948; Dawson, 1961  
Monterey Peninsula, Calif., to Punta Baja,  
Baja Calif.

*Opuntiella californica* (Farlow) Kylin  
Scagel, 1957  
Unga I., Alaska, to San Diego, Calif.

*Reticulobotrys catalinae* Dawson  
Dawson, 1961  
Santa Catalina I., Calif.; Isla Guadalupe, Baja  
Calif.

*Sarcodiotheca dichotoma* (Howe) Dawson  
Dawson, 1961  
Puerto Refugio to La Paz, Gulf of Calif.

*Sarcodiotheca divaricata* Taylor  
Taylor, 1945  
Galapagos Arch.

*Sarcodiotheca furcata* (Setchell & Gardner)  
Kylin  
Scagel, 1957; Dawson, 1961  
Southern British Columbia to Islas Tres  
Marías Mexico; Puerto Culebra, Costa  
Rica; Galapagos Arch.

*Sarcodiotheca linearis* Setchell & Gardner  
Dawson, 1961  
Isla Magdalena to San Lucas, Baja Calif.

*Sarcodiotheca taylorii* Dawson  
Dawson, 1961  
Punta Frailes, Baja Calif.; Islas Tres Marías

*Sarcodiotbeca tenuis* Taylor

Taylor, 1945; Dawson, 1961 (as probably equal to *S. divaricata*)  
Galapagos Arch.

## FAM. RHABDONIACEAE

*Catenella repens* (Lightfoot) Batters

Taylor, 1945  
Galapagos Arch.; Esmeraldas, Ecuador

*Catenella impudica* (Montagne) J. Agardh

Taylor, 1945  
Bahía Buenaventura, Colombia

## FAM. RHODOPHYLLIDACEAE

*Rhodophyllis dichotoma* f. *setacea* Kjellman

Setchell & Gardner, 1903  
Unalaska, Alaska

## FAM. HYPNEACEAE

*Hypneocolax stellaris* f. *orientalis* Weber van Bosse

Dawson, 1961  
Bahía Magdalena, Baja Calif.

*Hypnea boergesenii* Tanaka

Dawson, 1960a  
Isla Brincanco, Panamá

*Hypnea cervicornis* J. Agardh

Taylor, 1945; Dawson, 1957, 1959, 1961  
Isla Guadalupe, Scammon Lagoon, Bahía Santa María, Baja Calif.; San Felipe to Bahía San Lucas, Gulf of Calif.; Guayas, Ecuador; Galapagos Arch.

*Hypnea johnstonii* Setchell & Gardner

Dawson, 1958, 1961  
Newport Harbor, Calif.; southern Baja Calif.; Gulf of Calif.; Isla San Benedicto; Revillagigedo Arch.; to San Blas, Nayarit

*Hypnea marchantiae* Setchell & Gardner

Taylor, 1945  
Isla Gorgona, Colombia; La Libertad, Ecuador

*Hypnea pannosa* J. Agardh

Dawson, 1954c, 1957b, 1961  
Isla Pond, Gulf of Calif., to Islas Secas, Panamá; Galapagos Arch.

*Hypnea spicifera* (Suhr) Harvey ?

Dawson, 1961  
Mazatlán, Sinaloa

*Hypnea spinella* (C. Agardh) Kützting

Dawson, 1959b, 1961  
Guaymas, Sonora, to Bahía Petatlán, Guerrero; Clipperton I.

*Hypnea valentiae* (Turner) Montagne

Dawson, 1961  
Santa Barbara, Calif., to Guayas, Ecuador

*Hypnea variabilis* Okamura

Dawson, 1961  
Catalina I.; La Jolla, Calif., to Isla San Roque, Baja Calif.

## FAM. PLOCAMIACEAE

*Plocamium coccineum* (Hudson) Lyngbye var. *coccineum*

Farlow, 1902  
Galapagos Arch.

*Plocamium coccineum* var. *pacificum* (Kylin) Dawson

Dawson, 1957, 1959c; Scagel, 1957; Dawson, Neushul & Wildman, 1960, 1960a (all as *P. pacificum*); Dawson, 1961  
Southern British Columbia to Rocas Alijos and Revillagigedo Arch.

*Plocamium oreganum* Doty

Scagel, 1957  
Southern British Columbia to Sonoma Co., Calif.

*Plocamium tenue* Kylin

Scagel, 1957; Doty, 1947  
Sitka, Alaska, to South Bay, Oreg.

*Plocamium violaceum* Farlow

Scagel, 1957; Dawson, 1959c, 1961  
Southern British Columbia to Islas San Benito, Baja Calif.

*Plocamicolax pulvinata* Setchell

Scagel, 1957; Dawson, 1961  
Northern Wash. to Cabo Colnett, Baja Calif.;  
Isla Guadalupe

## FAM. SPHAEROCOCCACEAE

*Caulacanthus indicus* Weber van Bosse

Dawson, 1957b  
Golfo Dulce, Costa Rica ?

*Caulacanthus ustulatus* Kützing

Dawson, 1961  
Isla Cedros to Isla Margarita, Baja Calif.; Isla  
Turner, Gulf of Calif.

*Taylorophycus laxa* (Taylor) Dawson

Dawson, 1961  
Isla Magdalena, Baja Calif.

## FAM. GRACILARIACEAE

*Gelidiopsis tenuis* Setchell & Gardner

Dawson, 1954, 1957b, 1959, 1961  
Guaymas, Sonora, to Costa Rica; Revillagigedo Arch.

*Gelidiopsis variabilis* (Greville) Schmitz

Dawson, 1954, 1959, 1960a, 1961  
Guaymas, Sonora, to Bahía Santiago, Colima

*Gracilaria ascidiicola* Dawson

Dawson, 1961  
Puerto Escondido, Gulf of Calif.

*Gracilaria brevis* Taylor

Taylor, 1945  
Guayas, Ecuador

*Gracilaria cerrosiana* Taylor

Dawson, 1961  
Isla Cedros to Punta Abreojos, Baja Calif.

*Gracilaria crispata* Setchell & Gardner

Dawson, 1957b, 1961  
Isla Tiburón, Sonora, to Costa Rica; Revillagigedo Arch.

*Gracilaria ecuadoreanas* (Taylor) Dawson

Dawson, 1949b  
Galapagos Arch.

*Gracilaria* (?) *linearis* Kylin

Smith, 1944; Dawson, 1949b (as not of the  
genus *Gracilaria*)  
Monterey Peninsula; Point Sur, Calif.

*Gracilaria marcialana* Dawson

Dawson, 1961  
Bahía Agua Verde; Isla Espiritu Santo, Gulf  
of Calif.

*Gracilaria pachydermatica* Setchell & Gardner

Dawson, 1961  
Isla Cedros to Isla Magdalena, Baja Calif.;  
throughout the Gulf of Calif.

*Gracilaria ramisecunda* Dawson

Dawson, 1961  
Southern Gulf of Calif.

*Gracilaria rubrimembra* Dawson

Dawson, 1961  
Vicinity of Guaymas, Sonora

*Gracilaria rugulosa* Montagne ?

Farlow, 1902  
Galapagos Arch.

*Gracilaria skottsbergii* Taylor

Dawson, 1949b  
Galapagos Arch.

*Gracilaria spinigera* Dawson

Dawson, 1961  
Guaymas to Puerto Escondido, Gulf of Calif.;  
Isla Margarita, Baja Calif.

*Gracilaria subsecundata* Setchell & Gardner

Dawson, 1961  
Throughout the Gulf of Calif. to Bahía Topolobampo, Sinaloa

*Gracilaria symmetrica* Dawson

Dawson, 1961  
Bahía Chamela, Jalisco; Bahía Chacahua,  
Oaxaca; Bahía Santa Elena, Costa Rica

*Gracilaria tepocensis* (Dawson) Dawson

Dawson, 1961  
Northern Gulf of Calif.; Costa Rica

*Gracilaria textorii* (Suringar) J. Agardh var. *textorii*

Dawson, 1961  
Vicinity of Punta Eugenio; Punta Pequeña,  
Baja Calif.; Gulf of Calif.; Galapagos Arch.

*Gracilaria textorii* var. *cunninghamii* (Farlow) Dawson

Dawson, 1961; Dawson, Neushul, & Wild-  
man, 1960 (as *G. cunninghamii*)  
Santa Barbara, Calif., to Isla Magdalena, Baja  
Calif.

*Gracilaria turgida* Dawson

Dawson, 1961  
Newport Harbor, Calif.; Bahía Magdalena,  
Baja Calif.

*Gracilaria veleroae* Dawson

Dawson, 1961  
San Diego Co., Calif; northern Gulf of Calif.  
to Acapulco, Guerrero; Revillagigedo Arch.

*Gracilaria verrucosa* (Hudson) Papenfuss

Taylor, 1945 (as *G. confervoides* in part);  
Scagel, 1957; Dawson, 1961  
Southern British Columbia to central Gulf  
of Calif.; Guayas, Ecuador ?

*Gracilariopsis andersonii* (Grunow) Dawson

Dawson, 1961; Kylin, 1941 (as *Gracilaria*  
*andersonii*)  
Santa Barbara Co., Calif., to Punta María,  
Baja Calif.

*Gracilariopsis claviformis* Dawson

Dawson, 1961a  
Near Santa Cruz I., Calif.

*Gracilariopsis costaricensis* Dawson

Dawson, 1957b, 1961  
Bahía Tenacatita, Jalisco; Costa Rica

*Gracilariopsis megaspora* Dawson

Dawson, 1961  
Bahía San Carlos, Sonora

*Gracilariopsis panamensis* (Taylor) Dawson

Dawson, 1949b  
Puerto Culebra, Costa Rica; Isla Taboga, Pa-  
nama; Galapagos Arch.

*Gracilariopsis rhodotricha* Dawson

Dawson, 1961  
Revillagigedo Arch.

*Gracilariopsis robusta* (Setchell) Dawson

Dawson, 1949b  
Monterey Peninsula, Calif.

*Gracilariopsis sjoestedtii* (Kylin) Dawson

Scagel, 1957; Dawson & Beaudette, 1960;  
Dawson, 1961  
Vancouver I., British Columbia, to Bahía  
Salinas, Costa Rica

*Gracilariophila gardneri* Setchell

Dawson, 1945c, 1961  
Santa Monica to La Jolla, Calif.; Bahía Boco-  
chibampo, Sonora

*Gracilariophila oryzoides* Setchell & Wilson

Doty, 1947; Dawson, 1961  
Coos Bay, Oreg., to Bahía Rosario, Baja Calif.

## FAM. DICRANEMACEAE

*Dicranema rosaliae* Setchell & Gardner

Dawson, 1961  
Throughout the Gulf of Calif. to Puerto Par-  
ker, Costa Rica

## FAM. PHYLLOPHORACEAE

*Phyllophora californica* (J. Agardh) Kylin

Dawson, 1959c, 1961  
San Francisco; Santa Barbara, Calif., to Punta  
San Hipólito, Baja Calif.

*Phyllophora clevelandii* Farlow

Dawson, 1961  
Bolinás, Calif., to Socorro, Baja Calif.

- Phyllophora submaritimus* Dawson  
Dawson, 1961  
Cortes Bank, Calif.; Bahía Tortuga, Baja Calif.
- Petroglossum pacificum* Hollenberg  
Hollenberg, 1943, 1945; Doty, 1947; Kylin, 1956 (as *Phyllophora pacificum*)  
Coos Bay, Oreg., to La Jolla, Calif.
- Petroglossum parvum* Hollenberg  
Dawson, 1959c, 1961  
Laguna Beach, Calif., to Isla Cedros, Baja Calif.
- Abnfeltia concinna* J. Agardh  
Dawson 1954c, 1961; Scagel, 1957  
Southern British Columbia to Oaxaca, Mexico; Isla San Benedicto, Revillagigedo Arch.
- Abnfeltia durvillaei* (Bory) J. Agardh var. *durvillaei*  
Taylor, 1945  
Galapagos Arch.
- Abnfeltia durvillaei* var. *implicata* (Kützing) Howe  
Taylor, 1945  
Galapagos Arch.
- Abnfeltia plicata* (Hudson) Fries  
Okamura, 1933; Scagel, 1957; Dawson, 1959c, 1961  
Bering Sea to Punta Baja, Baja Calif.
- Abnfeltia svensoni* Taylor  
Dawson, 1961  
Southern Gulf of Calif.; Galapagos Arch.
- Gymnogongrus* ? *carosus* Setchell & Gardner  
Dawson, 1961  
Isla San Pedro Mártir, Gulf of Calif.
- Gymnogongrus crustiforme* Dawson  
Dawson, 1961  
Salina Cruz, Oaxaca
- Gymnogongrus griffithsiae* var. *galapagensis*  
Piccone & Grunow  
Taylor, 1945  
Galapagos Arch.
- Gymnogongrus guadalupensis* Dawson  
Dawson, 1961  
Isla Guadalupe; near Cabo San Lucas, Baja Calif.
- Gymnogongrus johnstonii* (Setchell & Gardner) Dawson  
Dawson, 1961  
Gulf of Calif. to Salina Cruz, Oaxaca; Bahía Salinas, Costa Rica; Revillagigedo Arch.
- Gymnogongrus leptophyllus* J. Agardh  
Doty, 1947; Dawson, 1959c, 1961; Dawson, Neushul & Wildman, 1960  
Oreg. to Punta Baja, Baja Calif.
- Gymnogongrus linearis* (Turner) J. Agardh  
Doty, 1947  
Cape Perpetua, Oreg., to San Luis Obispo Co., Calif.
- Gymnogongrus martinensis* Setchell & Gardner  
Dawson, 1961  
Isla San Martin to Isla Magdalena, Baja Calif.
- Gymnogongrus melanothrix* Grunow  
Taylor, 1945  
Galapagos Arch.
- Gymnogongrus norvegicus* (Gunner) J. Agardh  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Gymnogongrus platyphyllus* Gardner  
Scagel, 1957; Dawson, 1959c, 1961  
Southern British Columbia to Punta Santa Rosalía, Baja Calif.
- Gymnogongrus serenei* Dawson  
Dawson, 1961  
Cabo San Lucas, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.

*Gymnogongrus smithii* Taylor

Taylor, 1945  
Galapagos Arch.

*Gymnogongrus vermicularis* J. Agardh

Taylor, 1945  
Galapagos Arch.

*Stenogramme interrupta* (C. Agardh) Montagne

Dawson, 1959c, 1961; Scagel, 1957 (as *S. californica*); Kylin, 1956 (as *S. californica*); Dawson, Neushul & Wildman, 1960  
Southern British Columbia to Cabo San Lucas, Baja Calif.; Revillagigedo Arch.; Galapagos Arch.

## FAM. GIGARTINACEAE

*Chondrus* (?) *albemarlensis* Taylor

Taylor, 1945  
Galapagos Arch.

*Chondrus canaliculatus* Greville

Farlow, 1902  
Galapagos Arch.

*Chondrus crispus* (Linnaeus) Lyngbye

Setchell & Gardner, 1903  
Bering Sea to Unalaska, Alaska

*Chondrus* (?) *hancockii* Taylor

Taylor, 1945  
Galapagos Arch.

*Gigartina agardhii* Setchell & Gardner

Smith, 1944  
Fort Ross to La Jolla ?, Calif.

*Gigartina armata* J. Agardh var. *armata*

Dawson, 1951a, 1961  
Southern Calif. to Isla San Martín, Baja Calif. ?

*Gigartina armata* var. *echinata* (Gardner) Dawson

Dawson, 1961  
Santa Catalina I.; La Jolla, Calif.; Isla Guadalupe, Baja Calif.

*Gigartina asperifolia* J. Agardh

Setchell & Gardner, 1933; Dawson, 1958, 1959c, 1961  
Santa Barbara, Calif., to Punta Santa Rosalia, Baja Calif.

*Gigartina californica* J. Agardh

Smith, 1944; Sanborn & Doty, 1946; Doty, 1947; Dawson, 1959c, 1961  
Coos Bay, Oreg., to near Punta María, Baja Calif.

*Gigartina canaliculata* Harvey

Doty, 1947; Dawson, 1959c, 1961; Dawson, Neushul & Wildman, 1960  
Coos Bay, Oreg., to Isla Magdalena, Baja Calif.

*Gigartina chauvinii* (Bory) Montagne

Taylor, 1945  
Galapagos Arch.

*Gigartina corymbifera* (Kützting) J. Agardh

Scagel, 1957 (in part as *G. binghamii*); Dawson, 1961  
Northern Wash. to San Quintin, Baja Calif.

*Gigartina dichotoma* Gardner

Setchell & Gardner, 1933  
Duxbury Reef to Point Sur, Calif.

*Gigartina exasperata* Harvey & Bailey

Scagel, 1957  
Southern British Columbia to northern Calif.

*Gigartina harveyana* (Kützting) Setchell & Gardner

Doty, 1947; Dawson, 1959c, 1961  
Oreg. to near Punta María, Baja Calif.

*Gigartina intermedia* Suringar

Dawson, 1961  
Isla Tortuga, Gulf of Calif.; Mazatlan, Sinaloa

*Gigartina jardinii* J. Agardh

Setchell & Gardner, 1933  
Monterey; Santa Barbara, Calif.

*Gigartina johnstonii* Dawson

Dawson, 1961  
Northern Gulf of Calif. south to Guaymas

- Gigartina latissima* (Harvey) Eaton  
Scagel, 1957  
Table I., British Columbia, to northern Wash.
- Gigartina leptorhynchos* J. Agardh f. *leptorhynchos*  
Dawson, 1959c, 1961  
Santa Cruz, Calif., to Isla Cedros, Baja Calif.
- Gigartina leptorhynchos* f. *latissima* Dawson  
Dawson, 1949, 1961  
Point Arguello, Calif.; Isla San Martín, Baja Calif.
- Gigartina leptorhynchos* f. *cylindrica* Dawson  
Dawson, 1949, 1954, 1961  
Southern Calif. and northern Baja Calif.
- Gigartina lessonii* J. Agardh  
Farlow, 1902  
Galapagos Arch.
- Gigartina macdougalii* Dawson  
Dawson, 1961  
Northern Gulf of Calif. south to Isla Tiburón
- Gigartina mamillata* (Goodenough & Woodward) J. Agardh  
Scagel, 1957  
Southern British Columbia to Seal Rocks, Oreg.
- Gigartina multidichotoma* Dawson  
Dawson, 1961  
Santa Catalina I.; La Jolla, Calif.; Punta Descanso, Baja Calif.
- Gigartina papillata* (C. Agardh) J. Agardh f. *papillata*  
Scagel, 1957 (in part as *G. cristata*); Dawson, 1959c, 1961; Hollenberg, 1948  
Northern Wash. to Punta Baja, Baja Calif.
- Gigartina papillata* f. *cristata* Setchell  
Scagel, 1957; Dawson, 1959c (both as *G. cristata*), Dawson, 1961  
Northern Wash. to Bahía Rosario, Baja Calif.
- Gigartina pectinata* Dawson  
Dawson, 1961  
Northern Gulf of Calif.
- Gigartina serrata* Gardner  
Setchell & Gardner, 1933; Dawson, 1959c, 1961  
Balboa, Calif., to Isla Magdalena, Baja Calif.
- Gigartina sitchensis* Ruprecht  
Scagel, 1957  
Sitka, Alaska, to Whidbey I., Wash.
- Gigartina spinosa* (Kützting) Harvey  
Coe, 1932; Smith, 1944; Dawson, 1959c, 1961  
Monterey, Calif., to Punta Baja, Baja Calif.
- Gigartina stellata* (Stackhouse) Batters  
Scagel, 1957  
West Coast of Vancouver I., British Columbia
- Gigartina tepida* Hollenberg  
Dawson, 1959, 1961  
Balboa Harbor, Calif.; Bahía San Quintín, Baja Calif.; northern Gulf of Calif. south to Topolobampo, Sinaloa
- Gigartina turneri* Setchell & Gardner  
Setchell & Gardner, 1933; Dawson, 1945b  
Southern Calif.
- Gigartina unalascensis* (Ruprecht) Ruprecht  
Scagel, 1957  
Bering Sea to northern Wash.
- Gigartina volans* (C. Agardh) J. Agardh  
Doty, 1947; Dawson, 1959c, 1961; Dawson, Neushul & Wildman, 1960  
Coos Bay, Oreg., to near Punta María, Baja Calif.
- Rhodoglossum affine* (Harvey) Kylin  
Scagel, 1957; Dawson, 1959c, 1961  
Southern British Columbia to Isla San Roque, Baja Calif.
- Rhodoglossum americanum* Kylin  
Smith, 1944; Dawson, 1945b, 1958, 1959c, 1961  
Bolinás, Calif., to near Punta María, Baja Calif.



- Rhodoglossum cobinae* Dawson  
Dawson, 1961  
Punta María to Isla Magdalena, Baja Calif.
- Rhodoglossum coriaceum* Dawson  
Dawson, 1958, 1959c, 1961  
Santa Cruz I.; Ventura, Calif., to near Punta  
María, Baja Calif.
- Rhodoglossum diffusum* Dawson  
Dawson, 1961  
Isla Ángel de la Guarda, Gulf of Calif.
- Rhodoglossum digitatum* Dawson  
Dawson, 1961  
Isla Partida; Isla Rasa, Gulf of Calif.
- Rhodoglossum hancockii* Dawson  
Dawson, 1961  
Northern Gulf of Calif.
- Rhodoglossum latissimum* J. Agardh  
Scagel, 1957  
Northern British Columbia to northern Wash.
- Rhodoglossum linguiforme* Dawson  
Dawson, 1961  
Arroyo Hondo, southern Calif., to Punta  
Cono (?), Baja Calif.
- Rhodoglossum parvum* Smith & Hollenberg  
Smith, 1944; Hollenberg, 1948  
Monterey; southern Calif.
- Rhodoglossum roseum* (Kylin) G. M. Smith  
Smith, 1944; Dawson, 1959c, 1961  
Monterey Peninsula, Calif.; Punta Descanso  
to Punta Baja, Baja Calif.
- Iridaea agardhiana* (Setchell & Gardner) Kylin  
Smith, 1944; Sanborn & Doty, 1946; Doty,  
1947 (all as *Iridophycus flaccidum*); Ky-  
lin, 1941; Dawson, 1959c (as *Iridaea flac-  
cidum*)  
Cape Arago, Oreg., to Government Point,  
Calif.
- Iridaea californica* J. Agardh  
Kylin, 1941  
Santa Barbara, Calif.
- Iridaea cordata* (Turner) Bory  
Scagel, 1957  
Banks I., British Columbia to Oreg.
- Iridaea coriaceum* (Setchell & Gardner) Scagel  
Scagel, 1957  
Northern Wash. to Carmel, Calif.
- Iridaea fulgens* (Setchell & Gardner) Papenfuss  
Setchell & Gardner, 1937; Doty, 1947 (both  
as *Iridophycus fulgens*); Papenfuss, 1958  
Cape Arago, Oreg.; Trinidad, Humbolt Co.,  
Calif.
- Iridaea furcata* (Setchell & Gardner) Papenfuss  
Papenfuss, 1958  
Sitka, Alaska
- Iridaea heterocarpa* Postels & Ruprecht  
Scagel, 1957; Dawson, 1959c  
Northern British Columbia to Government  
Point, Calif.
- Iridaea lineare* (Setchell & Gardner) Kylin  
Smith, 1944; Doty, 1947 (both as *Iridophy-  
cus lineare*); Kylin, 1941; Dawson, 1959c  
Cape Mears, Oreg., to Ventura, Calif.
- Iridaea oregana* (Doty) Papenfuss  
Papenfuss, 1958  
Brookings, Oreg.
- Iridaea parksii* (Setchell & Gardner) Papenfuss  
Papenfuss, 1958  
Trinidad, Calif.
- Iridaea parvula* (Kjellman) Papenfuss  
Okamura, 1933 (as *Iridaea laminarioides* var.  
*parvula*); Papenfuss, 1958  
Aleutian Islands to Kodiak I., Alaska
- Iridaea reediae* (Setchell & Gardner) Papenfuss  
Dawson, 1958, 1959c; Papenfuss, 1958  
Bushnell's Beach, San Luis Obispo Co., and  
Solromar, Ventura Co., Calif.
- Iridophycus sanguineum* Setchell & Gardner  
Kylin, 1941; Dawson, 1945c (both as prob-  
ably identical with *Iridaea californica*);  
Doty, 1947  
Cape Arago, Oreg., to Pacific Grove, Calif.

- Iridaea sinicola* (Setchell & Gardner) Papenfuss  
Papenfuss, 1958  
San Francisco Bay, Calif.
- Iridaea splendens* (Setchell & Gardner) Papenfuss  
Doty, 1947 (as *Iridophycus splendens*); Papenfuss, 1958; Dawson, 1958, 1959c  
Cape Kiawandi, Oreg.; Monterey Peninsula and Government Point, Calif.
- Iridaea whidbeyanum* (Setchell & Gardner) Scagel  
Scagel, 1957  
Southern British Columbia to Oreg.
- Besa papillaeformis* Setchell  
Smith, 1944  
Lands End, San Francisco; Monterey, Calif.
- ORDER RHODYMENIALES  
FAM. RHODYMENIACEAE
- Fauchea* (?) *crispa* Taylor  
Dawson, 1954  
Isla María Magdalena, Nayarit
- Fauchea fryeana* Setchell  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Fauchea galapagensis* Taylor f. *galapagensis*  
Taylor, 1945  
Galapagos Arch.
- Fauchea galapagensis* f. *pygmaea* Taylor  
Taylor, 1945  
Galapagos Arch.
- Fauchea laciniata* J. Agardh var. *laciniata*  
Dawson, 1954; Scagel, 1957; Sparling, 1957;  
Dawson, Neushul & Wildman 1960, 1960a;  
Hollenberg, 1948 (as *F. media*)  
Southern British Columbia to Isla Asunción,  
Baja Calif.
- Fauchea laciniata* f. *pygmaea* Setchell & Gardner  
Kylin, 1941; Dawson, 1949a (both as *F. pygmaea*); Dawson, 1954; Dawson, Neushul & Wildman, 1960a; Sparling, 1957 (as *F. laciniata*)  
Throughout the southern part of the range of the species
- Fauchea mollis* Howe  
Dawson, 1954  
La Paz, Baja Calif.
- Fauchea rhizophylla* Taylor  
Taylor, 1945  
Galapagos Arch.
- Fauchea sefferi* Howe  
Dawson, 1954  
La Paz, Baja Calif.
- Faucheocolax attenuata* Setchell  
Scagel, 1957; Sparling, 1957  
Northern Wash. to Monterey Peninsula, Calif.
- Gloioderma conjuncta* (Setchell & Gardner) Dawson  
Dawson, 1954 (as *Estebania conjuncta*);  
Dawson, 1959  
Northern Gulf of Calif. south to Isla Tortuga
- Sciadophycus stellatus* Dawson  
Dawson, 1954; Dawson, Neushul & Wildman, 1960  
Southern Calif. to southern Baja Calif.
- Leptofauchea pacifica* Dawson  
Dawson, 1954  
Isla Cedros, Baja Calif.
- Fryella gardneri* (Setchell) Kylin  
Scagel, 1957  
Southern British Columbia to Oreg.
- Botryocladia beaudettei* Dawson  
Dawson, 1960a  
Bahía Potrero Grande, Costa Rica
- Botryocladia chiajeana* (Meneghini) Kylin ?  
Dawson, 1957 Dawson, Neushul & Wildman, 1960a  
Near Punta Eugenio; Rocas Alijos, Baja Calif.

*Botryocladia hancockii* Dawson

Dawson, 1954  
Bahía Agua Verde, Gulf of Calif.

*Botryocladia neushulii* Dawson

Dawson 1958; Dawson, Neushul & Wildman, 1960  
Goleta, Calif., to Bahía San Quintín, Baja Calif.

*Botryocladia pseudodichotoma* (Farlow) Kylin  
var. *pseudodichotoma*

Scagel, 1957; Dawson, 1954; Dawson, Neushul & Wildman, 1960, 1960a  
Vancouver I., British Columbia, to Isla María Magdalena, Nayarit; Isla Socorro, Revillagigedo Arch.; Galapagos Arch.

*Botryocladia pseudodichotoma* var. *datilensis*  
Dawson

Dawson, 1954  
Isla Tiburón; near Guaymas, Gulf of Calif.

*Botryocladia tenuissima* Taylor

Taylor, 1945  
Galapagos Arch.

*Botryocladia uvarioides* Dawson

Dawson, 1954, 1959  
Southern Gulf of Calif.

*Halosaccion glandiforme* (Gmelin) Ruprecht

Scagel, 1957  
Westernmost Aleutian Islands, Alaska, to Monterey Peninsula, Calif.

*Halosaccion ramentaceum* (Linnaeus) J. Agardh

Setchell & Gardner, 1903  
Sannak I. to Cook Inlet, Alaska

*Halosaccion tilesii* Kjellman

Setchell & Gardner, 1903  
Kukak Bay to Wrangel, Alaska

*Drouetia coalescens* (Farlow) G. De Toni

G. De Toni, 1938; Taylor, 1945 (as *Herpophyllum coalescens*); Dawson, 1949  
Galapagos Arch.

*Drouetia rotata* Dawson

Dawson, 1949; Dawson, Neushul & Wildman, 1960 (partly as *D. peltata* by error), 1960a  
Southern Calif. Channel Islands to Baja Calif.

*Rhodymenia arborescens* Dawson

Dawson, 1954; Dawson, Neushul & Wildman, 1960, 1960a  
Southern Calif. to Isla Magdalena, Baja Calif.

*Rhodymenia attenuata* Dawson

Smith, 1944; Dawson, Neushul & Wildman, 1960, 1960a  
Monterey, Calif., to Isla Asunción, Baja Calif.

*Rhodymenia californica* Kylin

Taylor, 1945; Dawson, 1954, 1949a, 1951a, 1959, 1959c; Scagel, 1957; Sparling, 1957; Dawson, Neushul & Wildman, 1960  
Southern British Columbia to Isla Magdalena, Baja Calif.; Isla Carmén, Gulf of Calif.; Galapagos Arch.

*Rhodymenia dawsonii* Taylor

Dawson, 1954; Dawson, Neushul & Wildman, 1960a  
Bahía Tortuga, Isla Magdalena, Baja Calif.

*Rhodymenia decumbens* Taylor

Taylor, 1945  
Galapagos Arch.

*Rhodymenia divaricata* Dawson

Taylor, 1945; Dawson, 1954  
Northern Gulf of Calif.; Galapagos Arch.

*Rhodymenia flabellifolia* Bory

Taylor, 1945; Dawson, 1941  
Galapagos Arch.

*Rhodymenia hancockii* Dawson

Dawson, 1954, 1959  
Isla Ángel de la Guarda; Bahía Agua Verde, Gulf of Calif.

*Rhodymenia lobata* Dawson

Smith, 1954; Dawson, 1954  
Monterey, Calif.; near Isla Isabel, Nayarit

*Rhodymenia lobulifera* Dawson

Smith, 1944; Dawson, 1959c  
Bolínas to San Pedro, Calif.

*Rhodymenia pacifica* Kylin

Scagel, 1957; Sparling, 1957; Dawson, 1959c;  
Dawson, Neushul & Wildman, 1960, 1960a  
Northern British Columbia to Punta Cabras,  
Baja Calif.

*Rhodymenia palmata* (Linnaeus) Greville f. *palmata*

Okamura, 1933; Scagel, 1957  
Aleutian Islands, Alaska, to northern Wash.

*Rhodymenia palmata* f. *mollis* Setchell & Gardner

Scagel, 1957  
Agattu I., Alaska, to Pacific Grove, Calif.

*Rhodymenia palmata* f. *sarniensis* (Mertens) J. Agardh

Setchell & Gardner, 1903  
Kodiak Is. to Orca, Alaska

*Rhodymenia palmetta* (Esper) Greville

Taylor, 1945  
Galapagos Arch.

*Rhodymenia palmettiformis* Dawson

Dawson, 1945, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
La Jolla, Calif., to Punta Baja, Baja Calif.

*Rhodymenia pertusa* (Postels & Ruprecht) J. Agardh

Scagel, 1957; Sparling, 1957  
Alaska to Coos Bay, Oreg.

*Rhodymenia rhizoides* Dawson

Dawson, 1941, 1945, 1959c  
Lechuza Point to San Diego, Calif.

*Rhodymenia rosea* Dawson

Dawson, 1954  
Isla Ángel de la Guarda, Gulf of Calif.

*Rhodymenia stipitata* Kylin

Scagel, 1957  
British Columbia; Puget Sound, Wash.

*Rhodymeniocolax botryoidea* Setchell

Scagel, 1957; Sparling, 1957  
Northern Wash. to San Diego, Calif.

## FAM. LOMENTARIACEAE

*Binghamia californica* J. Agardh

Silva, 1952  
Santa Barbara to Santa Monica, Calif.

*Binghamia forkii* (Dawson) Silva

Dawson, 1945; Hollenberg, 1948 (both as *Binghamiella*); Dawson, 1954, 1957 (as *Binghamiella* by error); Dawson, Neushul & Wildman, 1960, 1960a  
Laguna Beach, Calif., to Isla Asunción; Rocas Alijos, Baja Calif.

*Lomentaria baileyana* (Harvey) Farlow

Dawson, 1954  
Bahía Vizcaino, Baja Calif.; Revillagigedo Arch.; Puerto Culebra, Costa Rica

*Lomentaria caseae* Dawson

Dawson, 1946  
Del Mar, Calif.

*Lomentaria catenata* Harvey

Dawson, 1954  
Punta Santa Rosalía; Isla Magdalena, Baja Calif.; northern Gulf of Calif.

*Lomentaria bakodatensis* Yendo

Dawson, 1954, 1960a; Dawson, Neushul & Wildman, 1960a  
Isla Guadalupe; Islas San Benito; Laguna de San Ignacio, Baja Calif.; northern Gulf of Calif. to Puerto Culebra, Costa Rica

*Champia parvula* (C. Agardh) Harvey

Taylor, 1945; Dawson, 1954, 1954c, 1957b; 1959  
Revillagigedo Arch.; Gulf of Calif. to Golfo de Nicoya, Costa Rica; Esmeraldas, Ecuador

*Gastroclonium coulteri* (Harvey) Kylin

Scagel, 1957; Dawson, 1954, 1958c; Dawson, Neushul & Wildman, 1960  
Nootka Sound, British Columbia, to Bahía Asunción, Baja Calif.

*Coeloseira compressa* Hollenberg

Dawson, 1954; Dawson, Neushul & Wildman, 1960a  
Pacific Grove, Calif., to Isla Asunción, Baja Calif.

*Coeloseira pacifica* Dawson

Dawson, 1954  
Northern Gulf of Calif. south to Guaymas

*Coeloseira parva* Hollenberg

Dawson, 1954  
Redondo, Calif., to Punta Santa Rosalía, Baja Calif.

## ORDER CERAMIALES

## FAM. CERAMIACEAE

*Crouania attenuata* (Bonnemaison) J. Agardh

Dawson, 1954, 1957  
Isla Guadalupe; Bahía Vizcaino; Rocas Alijos, Baja Calif.

*Lejolisia colombiana* Taylor

Taylor, 1945  
Isla Gorgona, Colombia

*Gymnotamnium elegans* (Schousboe) J. Agardh

Hollenberg, 1948; Dawson, 1954; Taylor, 1945  
Southern Calif.; Isla Clarión, Revillagigedo Arch.; Galapagos Arch.

*Antithamnion alternans* Gardner

Gardner, 1927b  
Cook Inlet, Alaska

*Antithamnion asymmetricum* Gardner

Gardner, 1927c  
Sitka, Alaska

*Antithamnium baylesiae* Gardner

Doty, 1947  
South Slough, near Charleston, Oreg.; Monterey Peninsula, Calif.

*Antithamnion breviramisus* Dawson

Dawson, 1954, 1957, 1957b, 1959, 1960a  
Santa Catalina I., Calif., to Isla del Rey, Panama; southern Gulf of Calif.

*Antithamnion defectum* Kylin

Scagel, 1957  
Northern British Columbia to Monterey, Calif.

*Antithamnion dendroideum* Smith & Hollenberg

Smith, 1944  
Monterey, Calif.

*Antithamnion densiusculum* Gardner

Scagel, 1957  
Southern British Columbia to Pacific Grove, Calif.

*Antithamnion dumontii* Dawson

Dawson, 1960a  
Isla del Caño, Costa Rica, to Isla Jicarón, Panama

*Antithamnion floccosum* (Müller) Kleen

Scagel, 1957  
Southern British Columbia to northern Wash.

*Antithamnion gardneri* G. De Toni

G. De Toni, 1935; Doty, 1947 (as *A. tenuissimum*)  
Coos Bay, Oreg.; La Jolla, Calif.

*Antithamnion glanduliferum* Kylin

Scagel, 1957; Dawson, 1954d; Dawson, Neushul & Wildman, 1960a  
Southern British Columbia to Isla Asunción, Baja Calif.

*Antithamnion kylinii* Gardner

Scagel, 1957; Dawson, 1954  
Victoria, British Columbia, to Punta San Hipólito, Baja Calif.

- Antithamnion mcnabbii* Dawson  
Dawson, 1959  
Bahía Agua Verde, Gulf of Calif.
- Antithamnion nigricans* Gardner  
Scagel, 1957  
Vancouver I., British Columbia
- Antithamnion occidentale* Kylin  
Taylor, 1945; Scagel, 1957  
Alaska to La Jolla, Calif.; Galapagos Arch.
- Antithamnion pacificum* (Harvey) Kylin  
Dawson, 1954; Scagel, 1957  
Yakutat Bay, Alaska, to La Jolla, Calif.; northern Gulf of Calif.
- Antithamnion pulchellum* Gardner  
Gardner, 1927c  
Santa Monica, Calif.
- Antithamnion pygmaeum* Gardner  
Doty, 1947; Dawson, 1949; Dawson, Neushul & Wildman, 1960a  
Oreg. to Punta Eugenio, Baja Calif.
- Antithamnion secundatum* Gardner  
Gardner, 1927c  
San Diego, Calif.
- Antithamnion setaceum* Gardner  
Gardner, 1927c  
San Diego, Calif.
- Antithamnion simulans* Gardner  
Gardner, 1927b  
Sitka, Alaska
- Antithamnion sublittorale* Setchell & Gardner  
Dawson, 1954  
San Jose del Cabo, Baja Calif.
- Antithamnion subulatum* (Harvey) J. Agardh  
Scagel, 1957  
Southern British Columbia to Monterey, Calif.
- Antithamnion uncinatum* Gardner  
Scagel, 1957  
Northern Wash. to Carmel, Calif.
- Antithamnion veleroae* Taylor  
Taylor, 1945  
Galapagos Arch.
- Platythamnion heteromorphum* (J. Agardh) J. Agardh  
Doty, 1947  
Oreg. to San Pedro, Calif.
- Platythamnion pectinatum* Kylin var. *pectinatum*  
Dawson, 1954; Scagel, 1957  
Hope I., British Columbia, to Cabo Colnett, Baja Calif.
- Platythamnion pectinatum* var. *laxum* Taylor  
Dawson, 1954  
Isla Clarión, Revillagigedo Arch.
- Platythamnion reversum* (Setchell & Gardner) Kylin var. *reversum*  
Scagel 1957  
Northern Wash. to Oreg.
- Platythamnion reversum* var. *laxum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Platythamnion tepocensis* Dawson  
Dawson, 1954  
Bahía Tepoca, Gulf of Calif.
- Platythamnion villosum* Kylin  
Dawson, 1954; Scagel, 1957; Dawson, Neushul & Wildman, 1960a  
Sitka, Alaska, to Bahía Tortuga, Baja Calif.
- Ceramium affine* Setchell & Gardner var. *affine*  
Taylor, 1945; Dawson, 1954  
Isla Guadalupe, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif.; Guayas, Ecuador
- Ceramium affine* var. *peninsularis* Dawson  
Dawson, 1954  
Corona del Mar, Calif.; Scammon Lagoon, Baja Calif.; Punta Frailes, Gulf of Calif.

- Ceramium avalonae* Dawson  
Dawson, 1954, 1960a  
Santa Catalina I., Calif.; Isla Guadalupe, Baja Calif.; Puerto Culebra; Bahía Potrero Grande, Costa Rica
- Ceramium californicum* J. Agardh  
Dawson, 1954, 1959c; Scagel, 1957  
Southern British Columbia to Bahía Magdalena, Baja Calif.
- Ceramium camouii* Dawson  
Dawson, 1954, 1957  
Punta Banda; Bahía Vizcaino; Rocas Alijos, Baja Calif.; Gulf of Calif.
- Ceramium caudatum* Setchell & Gardner  
Dawson, 1954, 1959  
Balboa Harbor; Santa Catalina I., Calif.; Isla Guadalupe Baja Calif.; Gulf of Calif.
- Ceramium clarionense* Setchell & Gardner  
Dawson, 1954, 1957  
Balboa Harbor, Calif., to Isla Cedros; Rocas Alijos, Baja Calif.; Isla Jorge, Gulf of Calif. to Miramar, Nayarit; Revillagigedo Arch.
- Ceramium codicola* J. Agardh  
Dawson, 1954; Scagel, 1957  
Sitka, Alaska, to Bahía Tortuga, Baja Calif.
- Ceramium eatonianum* (Farlow) J. B. De Toni  
Doty, 1947; Dawson, 1954, 1959c  
Coos Bay, Oreg. to Isla Magdalena, Baja Calif.
- Ceramium equisetoides* Dawson  
Dawson, 1954, 1957b  
Balboa Harbor, Calif.; Bahía Tepoca, Sonora to Mazatlán, Sinaloa; Golfo de Nicoya, Costa Rica
- Ceramium evermannii* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Ceramium fimbriatum* Setchell & Gardner  
Dawson, 1954, 1959  
Punta Banda to Cabeza Ballena, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif. to Acapulco, Guerrero
- Ceramium gardneri* Kylin  
Doty, 1947; Dawson, 1950d  
Coos Bay, Oreg., to Santa Cruz I. and Ventura, Calif.
- Ceramium gracillimum* var. *byssoides* (Harvey) G. Mazoyer  
Dawson, 1950d, 1954 (both as *C. masonii*), 1956, 1957b, 1959; Taylor, 1945 (as *C. byssoides*)  
Corona del Mar, Calif., to Cabeza Ballena, Baja Calif.; Gulf of Calif.; Costa Rica; Galapagos Arch.
- Ceramium hamatispinum* Dawson  
Dawson, 1954  
Miramar, Nayarit
- Ceramium hoodii* Taylor  
Taylor, 1945  
Galapagos Arch.
- Ceramium horridum* Setchell & Gardner  
Dawson, 1954  
Gulf of Calif.
- Ceramium howellii* Setchell & Gardner  
Setchell & Gardner, 1937; Dawson, 1957  
Galapagos Arch.
- Ceramium marshallense* Dawson  
Dawson, 1957b  
Golfo de Nicoya, Costa Rica
- Ceramium mazatlanense* Dawson  
Dawson, 1954, 1954c, 1957b, 1959b  
Kino, Sonora, to Salina Cruz, Oaxaca; Golfo Dulce, Costa Rica; Isla San Benedicto, Revillagigedo Arch.; Clipperton I. ?
- Ceramium nakamurai* Dawson  
Dawson, 1957b  
Golfo de Nicoya, Costa Rica
- Ceramium obesum* Dawson  
Dawson, 1954  
Bahía Agua Dulce, Isla Tiburón, Sonora

- Ceramium ornatum* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Ceramium pacificum* (Collins) Kylin  
Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Northern British Columbia to Punta María, Baja Calif.
- Ceramium paniculatum* Okamura  
Dawson, 1954, 1959  
Guaymas, Sonora, to Mazatlán, Sinaloa
- Ceramium personatum* Setchell & Gardner  
Taylor, 1945; Dawson, 1954  
Isla Guadalupe; vicinity of Punta Santa Rosalía, Baja Calif.; Puerto Parker, Costa Rica ?
- Ceramium procumbens* Setchell & Gardner  
Hollenberg, 1948; Dawson, 1954, 1959, 1960a  
Southern Calif. to Punta Santa Rosalía, Baja Calif.; Gulf of Calif.; Bahía Ballena, Costa Rica
- Ceramium recticorticum* Dawson  
Dawson, 1954  
Guaymas, Sonora; Mazatlán, Sinaloa
- Ceramium rubrum* (Hudson) C. Agardh  
Scagel, 1957  
Bering Sea to northern Wash.
- Ceramium serpens* Setchell & Gardner  
Dawson, 1949a, 1954, 1957  
Gulf of Calif.; Clipperton I. ?; Galapagos Arch. ?
- Ceramium sinicola* Setchell & Gardner var. *sinicola*  
Dawson, 1954, 1957, 1959  
Southern Calif. and Pacific Baja Calif.; Rocas Alijos; Isla San Benedicto, Revillagigedo Arch.; northern Gulf of Calif.
- Ceramium sinicola* var. *interrupta* (Setchell & Gardner) Dawson  
Hollenberg, 1948; Dawson, 1954, 1959  
Same range as the species
- Ceramium sinicola* var. *johnstonii* (Setchell & Gardner) Dawson  
Dawson, 1954  
Same range as the species
- Ceramium strictum* Harvey  
Dawson, 1950c (as probably referable to *C. gardneri*); Scagel, 1957  
Southern British Columbia
- Ceramium taylorii* Dawson  
Taylor, 1945 (as *C. fastigiatum*); Dawson, 1954, 1954c, 1957b, 1959  
Laguna Beach, Calif., to Bahía Magdalena, Baja Calif.; Gulf of Calif. to Acapulco, Guerrero; Isla San Benedicto, Revillagigedo Arch.; Golfo de Nicoya, Costa Rica; Galapagos Arch. ?
- Ceramium templetonii* Setchell & Gardner  
Setchell & Gardner, 1937; Dawson, 1957  
Galapagos Arch.
- Ceramium vagabunde* Dawson  
Dawson, 1954c (as *Ceramium* sp.), 1957a, 1957b  
Isla San Benedicto, Revillagigedo Arch.; Golfo Dulce, Costa Rica
- Ceramium viscainoense* Dawson  
Dawson, 1954  
Punta Santa Rosalía, Baja Calif.
- Ceramium zacaе* Setchell & Gardner  
Dawson, 1954, 1957, 1959; Dawson, Neushul & Wildman, 1960a  
Southern Calif. to Rocas Alijos; Punta Abrejos, Baja Calif.; Bahía Agua Verde, Gulf of Calif.
- Centroceras bellum* Setchell & Gardner  
Dawson, 1954  
Guaymas, Sonora



- Centroceras clavulatum* (C. Agardh) Montagne  
var. *clavulatum*  
Dawson, 1954, 1954c, 1957, 1957b, 1959,  
1959c; Taylor, 1945  
Santa Cruz, Calif., to Panamá; Galapagos  
Arch.
- Centroceras clavulatum* var. *inermis* (Kützing)  
Piccone  
Dawson, 1957  
Galapagos Arch.
- Centroceras minutum* Yamada  
Dawson, 1960a  
Isla Brincanco, Panamá
- Microcladia borealis* Ruprecht  
Okamura, 1933; Scagel, 1957  
Aleutian Islands, Alaska, to San Simeon, Calif.
- Microcladia californica* Farlow  
Smith, 1944  
San Francisco to San Diego, Calif.
- Microcladia coulteri* Harvey  
Dawson, 1954, 1959c, Scagel, 1957; Dawson,  
Neushul & Wildman, 1960  
Vancouver I., British Columbia, to Punta  
Santa Rosalía, Baja Calif.
- Neoptilota asplenioides* (Esper) Kylin  
Kylin, 1956; Scagel, 1957 (as *Ptilota aspleni-*  
*oides*)  
Yakutat Bay, Alaska, to Puget Sound, Wash.
- Neoptilota californica* (Ruprecht) Kylin  
Kylin, 1956; Scagel, 1957 (as *Ptilota cali-*  
*fornica*)  
Northern British Columbia to San Diego,  
Calif.
- Neoptilota densa* (C. Agardh) Kylin  
Kylin, 1956; Dawson, 1954 (as *Plumaria*  
*densa*); Smith, 1944; Dawson, 1945b  
both as *Ptilota densa*)  
Tomales Bay, Calif., to Punta Baja, Baja Calif.
- Neoptilota hypnoides* (Harvey) Kylin  
Kylin, 1956; Scagel, 1957 (as *Ptilota hyp-*  
*noides*)  
Sitka, Alaska, to San Luis Obispo Co., Calif.
- Ptilota filicina* (Farlow) J. Agardh  
Kylin, 1956; Scagel, 1957; Dawson, 1954 (as  
*Plumaria filicina*); Dawson, 1949a, 1959c  
(both as *Ptilota filicina*)  
Bering Sea to Cabo Colnett, Baja Calif.
- Ptilota pectinata* (Gunner) Kjellman  
Kylin, 1956; Scagel, 1957  
Bering Sea to Puget Sound, Wash.
- Ptilota tenuis* Kylin  
Kylin, 1956; Scagel, 1957  
Northern British Columbia to northern  
Wash.
- Spyridia filamentosa* (Wulfen) Harvey  
Kylin, 1941; Taylor, 1945; Dawson, 1954,  
1957b  
Southern Calif. to Panamá
- Wrangelia argus* (Montagne) Montagne  
Dawson, 1960a  
Punta Naranja, Panamá
- Callithamnion acutum* Kylin  
Scagel, 1957  
Northern Wash.
- Callithamnion arborescens* Gardner  
Gardner, 1927b  
Sitka, Alaska
- Callithamnion biserialatum* Kylin  
Scagel, 1957  
Northern British Columbia to Monterey,  
Calif.
- Callithamnion bisporum* Gardner  
Scagel, 1957  
Northern Wash.
- Callithamnion breviramisum* Gardner  
Gardner, 1927c  
La Jolla, Calif.
- Callithamnion byssoides* Arnott  
Dawson, 1954, 1960a  
Isla Guadalupe, Baja Calif.

- Callithamnion californicum* Gardner  
Smith, 1944  
Monterey Peninsula, Calif.
- Callithamnion ecuadorenum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Callithamnion endovaginum* Setchell & Gardner  
Kyllin, 1941; Dawson, 1944, 1954  
La Jolla, Calif.; Guaymas, Sonora
- Callithamnion epiphyticum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Callithamnion laxum* Setchell & Gardner  
Scagel, 1957  
Southern British Columbia and northern  
Wash.; Oreg.
- Callithamnion marshallense* Dawson  
Dawson, 1960a  
Bahía Uvita, Costa Rica
- Callithamnion pacificum* Taylor  
Dawson, 1954  
Isla Socorro, Revillagigedo Arch.
- Callithamnion paschale* Børgesen  
Dawson, 1957, 1959  
Isla San Benedicto, Revillagigedo Arch. ?;  
Gulf of Calif.
- Callithamnion pikeanum* Harvey var. *pikeanum*  
Scagel, 1957; Dawson, 1959c  
Vallenar Point, Alaska, to Point Dume, Calif.
- Callithamnion pikeanum* var. *pacificum* (Har-  
vey) Setchell & Gardner  
Scagel, 1957  
Shumagin I., Alaska, to Oreg.; Point Mugu,  
Calif.
- Callithamnion ramosissimum* Gardner  
Gardner, 1927c; Dawson, 1949  
Santa Catalina I., La Jolla, Calif.
- Callithamnion rupicolum* Anderson f. *rupicolum*  
Smith, 1944; Dawson, 1954  
Fort Ross, Calif., to Isla Magdalena, Baja  
Calif.
- Callithamnion rupicolum* f. *pygmaeum* Collins  
in Collins, Holden & Setchell  
Collins, Holden & Setchell, 1911 (P.B.A.  
1797); Dawson, 1949; Taylor, 1945 (as  
possibly *C. rupicolum* f. *pygmaeum*)  
Santa Catalina I., Calif.; Galapagos Arch.
- Callithamnion socorriense* Taylor  
Dawson, 1954  
Isla Socorro, Revillagigedo Arch.
- Callithamnion squarrulosum* Harvey  
Harvey, 1853; J. Agardh, 1876  
Golden Gate (San Francisco) Calif.
- Callithamnion varispiralis* Dawson  
Dawson, 1954  
Santa Catalina I., Calif.; Bahía Vizcaino, Baja  
Calif.
- Haloplegma mexicanum* Taylor  
Dawson, 1954  
Isla Maria Magdalena, Nayarit
- Pleonosporium abyssicola* Gardner  
Scagel, 1957  
Near Friday Harbor, Wash.
- Pleonosporium complanatum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Pleonosporium dasyoides* (J. Agardh) J. B. De  
Toni  
Dawson, 1954, 1959c  
Tomales Bay, Calif., to Punta Descanso, Baja  
Calif.
- Pleonosporium globuliferum* Levring  
Dawson, 1957b, 1960a  
Puerto Guatulco, Oaxaca; Golfo de Nicoya,  
Costa Rica

- Pleonosporium kobayashii* Okamura  
Okamura 1933  
Atka I., Aleutian Islands, Alaska
- Pleonosporium polycarpum* Gardner  
Gardner, 1927*b*  
La Jolla, Calif.
- Pleonosporium pygmaeum* Gardner  
Gardner, 1927*b*  
La Jolla, Calif.
- Pleonosporium squarrosum* Kylin var. *squarrosum*  
Scagel, 1957  
Southern British Columbia to Northern Wash.
- Pleonosporium squarrosum* var. *obovatum*  
Gardner  
Scagel, 1957  
Sidney, Vancouver I., British Columbia
- Pleonosporium vancouverianum* (J. Agardh) J. Agardh  
Scagel, 1957  
Northern British Columbia to Monterey, Calif.
- Griffithsia* (?) *anthericephala* Dawson  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Griffithsia multiramosa* (Setchell & Gardner) Taylor var. *multiramosa*  
Dawson 1945*b*, 1954  
San Diego, Calif.; Isla Guadalupe; Scammon Lagoon; San Ignacio Lagoon, Baja Calif.; Gulf of Calif.
- Griffithsia multiramosa* var. *balboensis* Hollenberg  
Hollenberg, 1945  
Balboa Harbor, Calif.
- Griffithsia multiramosa* var. *minor* Taylor  
Dawson, 1954  
Punta Gorda, Baja Calif. del Sur
- Griffithsia pacifica* Kylin  
Scagel, 1957; Dawson, 1954; Dawson, Neushul & Wildman, 1960  
Southern British Columbia to southern Baja Calif.; northern Gulf of Calif.; Revillagigedo Arch. ?; Galapagos Arch.
- Griffithsia tenuis* C. Agardh  
Dawson, 1954, 1959  
Scammon Lagoon, Baja Calif.; Punta Peñasco, Sonora, to Mazatlán, Sinaloa
- Spermothamnion phycophilum* Taylor  
Taylor, 1945  
Galapagos Arch.
- Spermothamnion snyderae* Farlow  
Dawson, 1954, 1959*c*; Dawson, Neushul & Wildman, 1960  
Bolinás, Calif., to Isla Magdalena, Baja Calif.; northern Gulf of Calif.
- Tiffaniella saccorbiza* (Setchell & Gardner) Doty & Meñez  
Doty & Meñez, 1960; Dawson, 1954 (as *Spermothamnium saccorbiza*)  
Isla Guadalupe; Bahía Vizcaino, Baja Calif.

## FAM. DELESSERIACEAE

- Caloglossa lepreurii* (Montagne) J. Agardh  
Taylor, 1945; Dawson, 1957*b*  
Golfo Dulce, Costa Rica; Bahía Buenaventura, Colombia; Galapagos Arch.; Bahía San Francisco, Ecuador
- Branchioglossum undulatum* Dawson  
Dawson, 1949, 1960*a*; Dawson, Neushul & Wildman, 1960, 1960*a*  
Santa Rosa I., Calif., to Punta Asunción, Baja Calif.; Bahía Santiago, Colima
- Branchioglossum woodii* (J. Agardh) Kylin  
Dawson, 1954, 1957, 1959; Scagel, 1957  
Vancouver I., British Columbia, to Bahía Vizcaino, Baja Calif.; Rocas Alijos; Gulf of Calif.

*Hypoglossum abyssicolum* Taylor

Dawson, 1954

Islas Las Tres Marias, Nayarit; Puerto Cul-  
ebra, Costa Rica; Isla Gorgona, Colombia;  
Galapagos Arch.*Hypoglossum attenuatum* Gardner

Dawson, 1954

Isla Guadalupe; San Ignacio Lagoon, Baja  
Calif.; northern Gulf of Calif.*Hypoglossum retusum* DawsonDawson, 1954; Dawson, Neushul & Wild-  
man, 1960a

Isla Cedros; near Punta Eugenio, Baja Calif.

*Hemineura* (?) *howellii* Taylor

Taylor, 1945

Galapagos Arch.

*Membranoptera denticulata* (Montagne) KylinKylin, 1924; Setchell & Gardner, 1903 (as  
*Pteridium spinulosum*)

Bering Sea to Morzhovoi Bay, Alaska

*Membranoptera dimorpha* Gardner

Scagel, 1957

Queen Charlotte I., British Columbia, to Coos  
Bay, Oreg.*Membranoptera multiramosa* Gardner

Doty, 1947

Oreg. to Monterey, Calif.

*Membranoptera platyphylla* (Setchell & Gard-  
ner) Kylin

Scagel, 1957

Southern British Columbia to Oreg.

*Membranoptera setchellii* Gardner

Gardner, 1926

Morzhovoi Bay, Alaska

*Membranoptera spatulata* Dawson

Dawson, 1954

Isla Patos, Sonora

*Membranoptera tenuis* Kylin

Scagel, 1957

Northern Wash.

*Membranoptera weeksiae* Setchell & Gardner

Scagel, 1957

Northern Wash.; San Francisco to San Diego,  
Calif.*Pantoneura baerii* (Ruprecht) Kylin

Kylin, 1924

Sitka, Alaska

*Pantoneura juergensii* (J. Agardh) Kylin

Kylin, 1924

Bering Sea to Unalaska, Alaska

*Holmesia californica* (Dawson) Dawson

Scagel, 1957

Northern Wash.; San Diego, Calif.

*Schizoseris pygmaea* Dawson

Dawson, 1954, 1959

Northern Gulf of Calif.

*Delesseria decipiens* J. Agardh

Scagel, 1957

Prince William Sound, Alaska, to Carmel,  
Calif.*Delesseria banccockii* Taylor

Taylor, 1945

Galapagos Arch.

*Platysiphonia clevelandii* (Farlow) Papenfuss

Scagel, 1957

Northern Wash. to San Diego, Calif.

*Platysiphonia parva* Silva & Cleary

Silva &amp; Cleary, 1954; Dawson, 1954

Isla Guadalupe, Baja Calif.

*Taenioma perpusillum* J. Agardh

Dawson, 1954, 1959, 1960a

Gulf of Calif.; Isla Brincanco, Panamá

*Erythrogllossum californicum* (J. Agardh) J.  
Agardh

Doty, 1947; Dawson, 1958

Oreg.; Monterey to Ventura, Calif.

*Erythrogllossum intermedium* (J. Agardh) Kylin

Scagel, 1957

Vancouver I., British Columbia

- Sorella delicatula* (Gardner) Hollenberg var. *delicatula*  
Hollenberg, 1943  
San Pedro, Calif.
- Sorella delicatula* var. *californica* Hollenberg  
Hollenberg, 1943  
Southern Calif.
- Sorella divaricata* (Setchell & Gardner) Hollenberg  
Hollenberg, 1943; Smith, 1944 (as *Erythro-glossum divaricata*)  
Pacific Grove, Calif.
- Sorella pinnata* Hollenberg  
Dawson, 1954  
Southern Calif.; Islas San Benito, Baja Calif.;  
Gulf of Calif.
- Grinnellia lanceolata* Dawson  
Dawson, 1954, 1959c  
Punta Gorda, Baja Calif. del Sur
- Polyneura latissima* (Harvey) Kylin  
Scagel, 1957; Dawson, 1954, 1959c; Dawson,  
Neushul & Wildman, 1960, 1960a  
Northern British Columbia to Punta Eugenio,  
Baja Calif.
- Polyneurella hancockii* Dawson  
Dawson, 1954  
Isla Angel de la Guarda, Gulf of Calif.
- Nienburgia andersoniana* (J. Agardh) Kylin  
Doty, 1947; Dawson, 1954, 1959c; Dawson,  
Neushul & Wildman, 1960  
Oreg.; Santa Cruz, Calif., to Isla Magdalena,  
Baja Calif.
- Nienburgia borealis* (Kylin) Kylin  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Phycodrys ambigua* Gardner  
Gardner, 1927a  
Sitka, Alaska
- Phycodrys bullata* Gardner  
Gardner, 1927a  
Agattu I., to Sitka, Alaska
- Phycodrys elegans* Setchell & Gardner  
Setchell & Gardner, 1937; Taylor, 1945  
Galapagos Arch.
- Phycodrys pulchra* Taylor  
Taylor, 1945 (as probably equal to *P. elegans*)  
Galapagos Arch.
- Phycodrys setchellii* Skottsberg  
Doty, 1947; Dawson, 1954, 1959c  
Oreg. to Isla Cedros, Baja Calif.
- Pseudophycodrys rainosukei* Tokida  
Okamura, 1933  
Atka I., Aleutian Islands, Alaska
- Polycoryne gardneri* Setchell  
Scagel, 1957  
Northern Wash. to Monterey, Calif.
- Polycoryne phycodricola* Dawson  
Dawson, 1954  
Isla Cedros, Baja Calif.
- Haraldia prostrata* Dawson, Neushul & Wild-  
man  
Dawson, Neushul & Wildman, 1960a  
Islas San Benito, Baja Calif.
- Anisocladella pacifica* Kylin  
Smith, 1944; Hollenberg, 1948; Dawson,  
1954, 1959c; Dawson, Neushul & Wild-  
man, 1960  
Santa Cruz, Calif., to Bahía Asunción, Baja  
Calif.
- Myriogramme caespitosa* Dawson  
Dawson, 1949; Dawson, Neushul & Wild-  
man, 1960, 1960a  
Santa Rosa I., Calif., to Isla Magdalena, Baja  
Calif.
- Myriogramme divaricata* Dawson  
Dawson, 1954  
Isla Ángel de la Guarda, Gulf of Calif.

*Myriogramme hollenbergii* Kylin

Smith, 1944; Dawson, 1954, 1958  
Monterey; La Jolla, Calif.; Isla Magdalena,  
Baja Calif.

*Myriogramme kylinii* Taylor

Taylor, 1945  
Galapagos Arch.

*Myriogramme osorioi* Dawson

Dawson, 1954  
Isla Patos; Isla Partida, northern Gulf of Calif.

*Myriogramme pulchra* Gardner

Scagel, 1957  
Northern Wash.

*Myriogramme repens* Hollenberg

Hollenberg, 1945  
Point Vicente, Calif.

*Myriogramme spectabilis* (Eaton) Kylin

Dawson, 1954; Scagel, 1957  
Northern Wash. to Socorro, Baja Calif.

*Acrosorium* (?) *fragile* Taylor

Taylor, 1945  
Galapagos Arch.

*Acrosorium papenfussii* Taylor

Taylor, 1945  
Galapagos Arch.

*Acrosorium uncinatum* (Turner) Kylin

Kylin, 1941; Dawson, 1954, 1959c; Dawson,  
Neushul & Wildman, 1960  
Southern Calif. to Bahía Santa María, Baja  
Calif.

*Nitophyllum divaricatum* Taylor

Taylor, 1945  
Galapagos Arch.

*Nitophyllum galapagense* Taylor

Taylor, 1945  
Galapagos Arch.

*Nitophyllum mirabile* Kylin

Scagel, 1957  
Southern British Columbia to northern Wash.

*Hymenena cuneifolia* Doty

Doty, 1947  
Coos Bay, Oreg

*Hymenena flabelligera* (J. Agardh) Kylin

Scagel, 1957  
Southern British Columbia to Carmel, Calif.

*Hymenena kylinii* Gardner

Doty, 1947  
Oreg.; San Francisco to Monterey, Calif.

*Hymenena multiloba* (J. Agardh) Kylin

Doty, 1947  
Oreg. to Carmel, Calif.

*Hymenena setchellii* Gardner

Scagel, 1957  
Hope I., British Columbia, to Carmel, Calif.

*Hymenena smithii* Kylin

Doty, 1947  
Oreg.; Carmel, Calif.

*Cryptopleura brevis* Gardner

Doty, 1947  
Oreg.; Moss Beach, Calif.

*Cryptopleura corallinara* (Nott) Gardner

Dawson, 1954, 1957, 1959c; Dawson, Neu-  
shul & Wildman, 1960a  
San Diego, Calif., to Isla Magdalena; Rocas  
Alijos, Baja Calif.

*Cryptopleura crispa* Kylin

Kylin, 1941; Doty, 1947; Dawson, 1954,  
1959c; Dawson, Neushul & Wildman,  
1960  
Oreg.; Ventura Co., Calif., to Isla Magdalena,  
Baja Calif.

*Cryptopleura dichotoma* Gardner

Gardner, 1927  
San Pedro, Calif.

- Cryptopleura lobulifera* (J. Agardh) Kylin  
Smith, 1944; Dawson, 1949, 1954, 1959c  
Tomales Bay, Calif., to Bahía Santa María,  
Baja Calif.
- Cryptopleura ruprechtiana* (J. Agardh) Kylin  
Scagel, 1957  
Sitka, Alaska, to northern Calif.
- Cryptopleura spatulata* Gardner  
Gardner, 1927; Dawson, 1960a  
Santa Barbara; San Pedro, Calif.; Islas Todos  
Santos, Baja Calif.
- Cryptopleura violacea* (J. Agardh) Kylin  
Scagel, 1957; Dawson, 1954, 1959c; Dawson,  
Neushul & Wildman, 1960  
Southern Vancouver I., British Columbia, to  
near Punta María, Baja Calif.
- Botryoglossum farlowianum* (J. Agardh) J. B.  
De Toni  
Scagel, 1957 Dawson, 1954, 1959c; Dawson,  
Neushul & Wildman, 1960, 1960a  
Puget Sound, Wash., to Islas San Benito, Baja  
Calif.
- Gonimophyllum skottsbergii* Setchell  
Scagel, 1957  
Friday Harbor, Wash., to San Diego, Calif.
- FAM. DASYACEAE
- Dasya abyssicola* Dawson  
Dawson, 1949  
San Clemente Is., Calif.
- Dasya californica* Gardner  
Dawson, 1945b, 1954  
Southern Calif. to Isla Magdalena, Baja Calif.
- Dasya eastwoodae* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Dasya pedicellata* C. Agardh  
Dawson, 1954, 1957, 1959  
Rocas Alijos; central Baja Calif.; northern  
Gulf of Calif.
- Dasya sinicola* (Setchell & Gardner) Dawson  
Dawson, 1959  
Southern Gulf of Calif.
- Dasya stanfordiana* Farlow  
Taylor, 1945; Dawson, 1954  
Isla Guadalupe, Baja Calif.; Islas Tres Marias,  
Nayarit; Galapagos Arch.
- Rhodoptilum densum* (G. M. Smith) comb.  
nov.  
Smith, in Smith & Hollenberg, 1943; 217;  
Smith, 1944; Hollenberg, 1948 (all as  
*Dasyopsis densa*)  
Santa Cruz, Calif., to southern Calif.
- Rhodoptilum plumosum* (Harvey & Bailey)  
Kylin  
Kylin, 1956; Scagel, 1957 (as *Dasyopsis plu-*  
*mosa*)  
Queen Charlotte Sound, British Columbia, to  
northern Calif.
- Pogonophorella californica* (J. Agardh) Silva  
Hollenberg, 1948; Dawson, 1945b (both as  
*Pogonophora*), 1954, 1959c; Dawson, Neu-  
shul & Wildman, 1960  
Santa Barbara, Calif., to Bahía Asunción, Baja  
Calif.
- Heterosiphonia asymmetria* Hollenberg  
Hollenberg, 1945  
Corona del Mar, Calif.
- Heterosiphonia densiuscula* Kylin  
Scagel, 1957  
Northern Wash.
- Heterosiphonia erecta* Gardner, em. Setchell &  
Gardner  
Dawson, 1949, 1954, 1957; Taylor, 1945  
Santa Monica, Calif., to Rocas Alijos; Isla  
Magdalena, Baja Calif.; Guayas, Ecuador
- Heterosiphonia laxa* Kylin  
Scagel, 1957  
Southern British Columbia to northern Wash.
- Heterosiphonia wurdemannii* var. *laxa* Børgesen  
Dawson, 1957b, 1959  
Isla Espíritu Santo, Gulf of Calif.; Golfo de  
Nicoya, Costa Rica

## FAM. RHODOMELACEAE

- Polysiphonia acuminata* Gardner  
Hollenberg, 1942a; Smith, 1944  
Monterey to La Jolla, Calif.
- Polysiphonia bajacali* Hollenberg  
Hollenberg, 1961  
Isla Guadalupe, Baja Calif.
- Polysiphonia beaudettei* Hollenberg  
Hollenberg, 1961  
Isla Guadalupe; Scammon Lagoon, Baja Calif.;  
Isla Socorro, Revillagigedo Arch.; Isla  
Grande, Guerrero; Bahía Potrero Grande,  
Costa Rica
- Polysiphonia bifurcata* Hollenberg  
Taylor, 1945; Hollenberg, 1961  
Scammon Lagoon, Baja Calif.; Playa Blanca,  
Costa Rica; Galapagos Arch.
- Polysiphonia brodiaei* (Dillwyn) Greville  
Hollenberg, 1944; Smith, 1944  
Sausalito to Santa Monica, Calif.
- Polysiphonia confusa* Hollenberg  
Hollenberg, 1961; Dawson, 1959c (as *P. in-*  
*conspicua*)  
Corona del Mar, Calif., to Desembarcadero  
de Miller, Baja Calif.
- Polysiphonia decussata* Hollenberg  
Hollenberg, 1961; Taylor, 1945  
Topanga Canyon, Calif., to near Punta Malar-  
rino, Baja Calif.; Isla Guadalupe; Gala-  
pagos Arch.
- Polysiphonia ferulacea* Suhr  
Dawson, 1957  
Clipperton I.
- Polysiphonia flaccidissima* Hollenberg var. *flac-*  
*cidissima*  
Hollenberg, 1961  
Laguna Beach, Calif., to Panamá
- Polysiphonia flaccidissima* var. *smithii* Hollen-  
berg  
Hollenberg, 1942a; Smith, 1944  
San Francisco to San Diego, Calif.
- Polysiphonia guadalupensis* Setchell & Gardner  
Hollenberg, 1961  
Isla Guadalupe, Baja Calif.
- Polysiphonia hancockii* Dawson  
Hollenberg, 1961  
Cabeza Ballena to San Jose del Cabo, Baja  
Calif. del Sur
- Polysiphonia hendryi* Gardner var. *hendryi*  
Doty, 1947; Hollenberg, 1961  
Cape Arago, Oreg., to Isla Cedros, Baja Calif.
- Polysiphonia hendryi* var. *gardneri* (Kyllin)  
Hollenberg  
Scagel, 1957; Dawson, 1959c (both as *P. col-*  
*linsii*); Hollenberg, 1961  
British Columbia to Cabo San Lucas, Baja  
Calif.
- Polysiphonia hendryi* var. *compacta* (Hollen-  
berg) Hollenberg  
Hollenberg, 1961  
Southern Calif. and northern Baja Calif.
- Polysiphonia hendryi* var. *deliquescens* (Hollen-  
berg) Hollenberg  
Scagel, 1957 (as *P. collinsii* var. *deliques-*  
*cens*); Hollenberg, 1961  
Prince William Sound, Alaska, to Oreg.
- Polysiphonia hendryi* var. *luxurians* (Hollen-  
berg) Hollenberg  
Scagel, 1957 (as *P. collinsii* var. *luxurians*;  
Hollenberg, 1961  
Northern Wash.
- Polysiphonia homia* Setchell & Gardner  
Hollenberg, 1961  
Isla Guadalupe, Baja Calif.
- Polysiphonia howei* Hollenberg  
Taylor, 1955; Hollenberg, 1958a  
Bahía de Panamá, Panamá; Bahía Cobita,  
Colombia



- Polysiphonia indigena* Hollenberg  
Hollenberg, 1958a, 1944 (as *P. dichotoma*)  
Santa Cruz; San Diego, Calif.
- Polysiphonia johnstonii* Setchell & Gardner var. *johnstonii*  
Dawson, Neushul & Wildman, 1960a; Hollenberg, 1961  
Santa Catalina I., Calif., to Topolobampo, Sinaloa; Gulf of Calif.
- Polysiphonia johnstonii* var. *concinna* (Hollenberg) Hollenberg  
Hollenberg, 1961  
La Jolla, Calif., to Mazatlán, Sinaloa; Gulf of Calif.
- Polysiphonia macounii* Hollenberg  
Scagel, 1957  
Southern British Columbia
- Polysiphonia masonii* Setchell & Gardner  
Hollenberg, 1961  
Isla Guadalupe, Baja Calif.
- Polysiphonia mollis* Hooker & Harvey  
Dawson, 1959c; Scagel, 1957 (both as *P. Snyderae*); Hollenberg, 1961; Dawson, 1957; 1957b, 1959b; Dawson, Neushul & Wildman, 1960  
Southern British Columbia to central Mexico
- Polysiphonia nathanielii* Hollenberg  
Hollenberg, 1961  
Santa Monica, Calif., to Playa Rosarita, Baja Calif.
- Polysiphonia pacifica* var. *pacifica*  
Doty, 1947; Dawson, 1959c; Hollenberg, 1961  
Sitka, Alaska, to Islas Coronados, Baja Calif.
- Polysiphonia pacifica* var. *delicatula* Hollenberg  
Hollenberg, 1961  
Monterey, Calif., to Bahía Cahuacán, Chiapas; central Gulf of Calif.
- Polysiphonia pacifica* var. *determinata* Hollenberg  
Scagel, 1957  
Alaska to central Calif.
- Polysiphonia pacifica* var. *distans* Hollenberg  
Scagel, 1957  
Southern British Columbia to Santa Cruz, Calif.
- Polysiphonia pacifica* var. *disticha* Hollenberg  
Hollenberg, 1942a; Scagel, 1957; Segi, 1951 (as *P. abscissa*)  
Vancouver I., British Columbia, to central Calif.
- Polysiphonia pacifica* var. *gracilis* Hollenberg  
Scagel, 1957  
Southern British Columbia to central Calif.
- Polysiphonia paniculata* Montagne  
Scagel, 1957; Dawson, 1959c; Hollenberg, 1961; Dawson, Neushul & Wildman, 1960a  
Port Holmes, British Columbia, to Punta Baja, Baja Calif.; northern Gulf of Calif.
- Polysiphonia savatieri* Hariot  
Hollenberg, 1961; Dawson, 1945b (as *P. minutissima*)  
Santa Catalina I., Calif., to Isla Guadalupe; Punta Banda, Baja Calif.
- Polysiphonia senticulosa* Harvey  
Scagel, 1957  
Southern British Columbia to Monterey, Calif.
- Polysiphonia simplex* Hollenberg  
Hollenberg, 1961; Dawson, 1959c  
Southern Calif. to Costa Rica; Gulf of Calif.; Revillagigedo Arch.
- Polysiphonia sonorensis* Hollenberg  
Hollenberg, 1961  
Guaymas; Empalme, Sonora
- Polysiphonia subtilissima* Montagne (fide Tseng)  
Dawson, 1957b, 1959b  
Costa Rica; Clipperton I.

- Polysiphonia urceolata* (Lightfoot) Greville  
Okamura, 1933; Segi, 1951; Scagel, 1957  
Aleutian I., Alaska, to northern Wash.
- Tayloriella dictyurus* (J. Agardh) Kylin  
Kylin, 1956; Dawson, 1954 (as *Bryocladia dictyurus*)  
Bahía Petatlán, Guerrero; Pochetti, Oaxaca ?
- Bryocladia borealis* Dawson  
Dawson, 1954  
Campo Malarrimo, Bahía Vizcaino, Baja Calif.
- Ophidocladus californica* (Hollenberg) Kylin  
Kylin, 1956; Dawson, 1960a; Hollenberg, 1943 (as *Rhodospiphonia*)  
Santa Barbara to San Diego, Calif.
- Digenia simplex* (Wulfen) C. Agardh  
Dawson, 1954, 1957b, 1959  
Gulf of Calif. to Costa Rica
- Bryothamnion pacificum* Taylor  
Dawson, 1954  
Bahía Vizcaino, Baja Calif.; Isla María Magdalena, Nayarit
- Bostrychia binderi* Harvey  
Taylor, 1945; Dawson, 1957b  
Golfo Dulce, Costa Rica; Galapagos Arch.
- Bostrychia calliptera* (Montagne) Montagne  
Taylor, 1945  
Panamá; Choco, Bahía Buenaventura; Isla Gorgona, Colombia; Galapagos Arch.
- Bostrychia radicans* Montagne  
Taylor, 1945; Dawson, 1954, 1957b; Post 1955 (as *B. radicans* f. *moniliforme*)  
Guaymas, Sonora; Barra de Navidad, Jalisco; El Salvador; Golfo Dulce, Costa Rica; Choco, Bahía Buenaventura, Colombia; Galapagos Arch.
- Bostrychia simpliciuscula* Harvey ex J. Agardh  
Dawson, 1957b  
Golfo de Nicoya, Costa Rica
- Bostrychia tenella* J. Agardh  
Taylor, 1945  
Galapagos Arch.
- Lophosiphonia macra* (Harvey) Falkenberg  
Dawson, 1954c  
Isla San Benedicto, Revillagigedo Arch.
- Lophosiphonia mexicana* Dawson  
Dawson, 1954  
Isla Cedros, Baja Calif.; Isla Ángel de la Guarda, Gulf of Calif.; Isla Clarión, Revillagigedo Arch.
- Lophosiphonia reptabunda* (Suhr) Kylin  
Kylin, 1956; Dawson, 1957b, 1959c (possibly confused with *Ophidocladus*); Scagel, 1957 (as *L. obscura*); Hollenberg, 1958a (as *L. obscura*)  
Southern British Columbia to northern Wash.; southern Calif. ?; Costa Rica ?
- Lophosiphonia scopulorum* (Harvey) Womersley  
Dawson, 1957b, 1959, 1959c, 1954 (as *L. villum*); Scagel, 1957 (as *L. villum*)  
Southern British Columbia to Isla Magdalena, Baja Calif.; Gulf of Calif.
- Brogniartella mucronata* (Harvey) Schmitz  
Dawson, 1954; Kylin, 1956 (as probably a species of *Micropeuce*)  
Isla María Magdalena, Nayarit
- Veleroa subulata* Dawson  
Dawson, 1954  
Bahía Tepoca, Sonora
- Pterosiphonia arctica* Setchell & Gardner  
Okamura, 1933; Scagel, 1957  
Aleutian I., Alaska, to Puget Sound, Wash.
- Pterosiphonia baileyi* (Harvey) Falkenberg  
Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Crescent City, Calif., to Isla San Roque, Baja Calif.

- Pterosiphonia bipinnata* (Postels & Ruprecht)  
Falkenberg var. *bipinnata*  
Okamura, 1933; Scagel, 1957  
Aleutian I., Alaska, to San Pedro, Calif.
- Pterosiphonia bipinnata* var. *robusta* (Gardner)  
Doty  
Scagel, 1957  
Sitka, Alaska, to Oreg.
- Pterosiphonia californica* Kylin  
Kylin, 1941; Hollenberg, 1948  
La Jolla, Calif.
- Pterosiphonia dendroidea* (Montagne) Falkenberg  
Taylor, 1945; Scagel, 1957; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Northern British Columbia to San Jose del Cabo, Baja Calif.; Galapagos Arch.
- Pterosiphonia gracilis* Kylin  
Scagel, 1957  
Southern British Columbia to Coos Bay, Oreg.
- Pterosiphonia pennata* (Roth) Falkenberg  
Dawson, 1954  
Bahía Tepoca, Sonora
- Levringiella gardneri* (Setchell) Kylin  
Dawson, 1945c; Hollenberg 1948 (both as *Stromatocarpus gardneri*); Kylin, 1956  
Santa Monica to La Jolla, Calif.
- Pterochondria pygmaea* (Setchell) Hollenberg  
Dawson, 1954; Dawson, Neushul & Wildman, 1960  
Southern Calif. to Bahía Asunción, Baja Calif.
- Pterochondria woodii* (Harvey) Hollenberg  
Scagel, 1957; Dawson, 1959c; Dawson, Neushul & Wildman, 1960  
Vancouver, British Columbia, to Isla Asunción, Baja Calif.
- Herposiphonia grandis* Kylin  
Scagel, 1957  
Southern British Columbia to Coos Bay, Oreg.
- Herposiphonia rigida* Gardner var. *rigida*  
Scagel, 1957  
Southern British Columbia to Santa Monica, Calif.
- Herposiphonia rigida* var. *laxa* Setchell & Gardner  
Dawson, 1949, 1954  
Santa Catalina I., Calif.; Isla Guadalupe, Baja Calif.
- Herposiphonia secunda* (C. Agardh) Ambronn  
Taylor, 1945; Hollenberg, 1948; Dawson, 1957, 1957b, 1959, 1959b, 1959c  
Southern Calif. to Isla Jicarita, Panamá; southern Gulf of Calif.; Clipperton I.
- Herposiphonia spinosa* Dawson  
Dawson, 1959  
Isla Partida, Baja Calif. del Sur
- Herposiphonia subdisticha* Okamura  
Dawson, 1954; Scagel, 1957 (both as *H. parva*); Dawson, 1954, 1957b, 1959, 1960a  
Northern Wash. to Isla Guadalupe; Islas San Benito, Baja Calif.; Gulf of Calif.; Golfo de Nicoya, Costa Rica
- Herposiphonia tenella* (C. Agardh) Nägeli  
Hollenberg, 1948; Dawson, 1954, 1954c, 1957b, 1959  
Southern Calif. to Bahía Vizcaino, Baja Calif.; Kino, Sonora to Golfo de Nicoya, Costa Rica; Isla San Benedicto, Revillagigedo Arch.
- Herposiphonia verticillata* (Harvey) Kylin  
Coe, 1932; Dawson, 1954, 1959c  
San Francisco, Calif., to Punta Santa Rosalía, Baja Calif.
- Amplisiphonia pacifica* Hollenberg  
Dawson, 1954; Scagel, 1957; Dawson, Neushul & Wildman, 1960, 1960a  
Northern British Columbia to near Punta Eugenio, Baja Calif.

- Jantiniella verrucaeformis* (Setchell & McFadden) Kylin  
Dawson, 1954 (in part as *J. sinicola*), 1959; Setchell & Gardner, 1930 (as *J. sinicola*) San Pedro, Calif., to Bahía Vizcaino, Baja Calif.; Isla Clarión, Revillagigedo Arch.; southern Gulf of Calif.
- Chondria arcuata* Hollenberg  
Hollenberg, 1945  
Corona del Mar; Laguna Beach, Calif.
- Chondria californica* (Collins) Kylin  
Dawson, 1946 (as *C. cuscutoides*), 1954, 1954d, 1959, 1959c; Dawson, Neushul & Wildman, 1960  
La Jolla, Calif., to Puerto Culebra, Costa Rica
- Chondria clarionensis* Setchell & Gardner  
Dawson, 1954, 1959 (as possibly equal to *C. californica*)  
Isla Guadalupe, Baja Calif., Isla Clarión, Revillagigedo Arch.
- Chondria dangeardii* Dawson  
Dawson, 1960a  
Isla del Rey, Panamá
- Chondria dasyphylla* (Woodward) C. Agardh  
Dawson, 1954, 1959  
Bahía Gonzaga to Bahía Agua Verde, Gulf of Calif.
- Chondria decipiens* Kylin  
Smith, 1944; Dawson, 1945b, 1954, 1958, 1959, 1959c  
Santa Cruz, Calif., to Cabo Colnett, Baja Calif.  
Isla San Pedro Nolasco, Gulf of Calif. ?
- Chondria flexicaulis* Taylor  
Taylor, 1945  
Galapagos Arch.
- Chondria lancifolia* Okamura  
Dawson, 1957, 1957b  
Rocas Alijos, Baja Calif.; Golfo de Nicoya, Costa Rica ?
- Chondria nidifica* Harvey  
Kylin, 1941; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
La Jolla, Calif., to Bahía Asunción, Baja Calif.
- Chondria oppositoclada* Dawson  
Dawson, 1946  
La Jolla, Calif.
- Chondria pacifica* Setchell & Gardner  
Dawson, 1954, 1958  
Arroyo Hondo, Santa Barbara Co., Calif., to Bahía Tortuga, Baja Calif.
- Chondria platyclada* Taylor  
Taylor, 1945 Dawson & Beaudette, 1960  
Costa Rica; Isla Plata, Ecuador
- Chondria repens* Børgesen  
Dawson, 1957b  
Golfo Dulce, Costa Rica
- Chondria secundata* (J. Agardh) J. B. De Toni  
J. B. De Toni, 1903  
Santa Barbara, Calif.
- Laurencia clarionensis* Setchell & Gardner  
Dawson, 1954  
Isla Clarión, Revillagigedo Arch.
- Laurencia congesta* Taylor  
Taylor, 1945  
Galapagos Arch.
- Laurencia crispa* Hollenberg  
Smith, 1944  
Monterey Peninsula, Calif.
- Laurencia decidua* Dawson  
Dawson, 1954c  
Isla San Benedicto, Revillagigedo Arch.
- Laurencia densissima* Setchell & Gardner  
Setchell & Gardner, 1937  
Galapagos Arch.
- Laurencia diegoensis* Dawson  
Hollenberg, 1948; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Carpinteria, Calif., to Punta Baja, Baja Calif.

- Laurencia estebaniana* Setchell & Gardner  
Dawson, 1954  
Isla Smith; Isla San Esteban, Gulf of Calif.
- Laurencia gardneri* Hollenberg  
Smith, 1944  
Monterey Peninsula, Calif.
- Laurencia hancockii* Dawson  
Dawson, 1954  
Bahía Agua Verde, Gulf of Calif.
- Laurencia humilis* Setchell & Gardner  
Dawson, 1954  
Isla Clarión, Revillagigedo Arch.
- Laurencia intricata* Lamouroux  
Dawson, 1954  
Bahía Petatlán, Guerrero
- Laurencia johnstonii* Setchell & Gardner  
Dawson, 1954  
Northern Gulf of Calif.
- Laurencia lajolla* Dawson  
Dawson, 1958  
La Jolla, Calif.
- Laurencia masonii* Setchell & Gardner  
Dawson, 1954  
Isla Guadalupe, Baja Calif.
- Laurencia mediocris* Setchell & Gardner  
Setchell & Gardner, 1937  
Galapagos Arch.
- Laurencia multibulba* Dawson, Neushul & Wildman  
Dawson, Neushul & Wildman, 1960a  
Off Punta Hughes and Punta Entrada, Isla Magdalena, Baja Calif.
- Laurencia obtusa* (Hudson) Lamouroux var. *gracilis* Harvey  
Taylor, 1945  
Galapagos Arch.
- Laurencia obtusiuscula* Setchell & Gardner var. *obtusiuscula*  
Dawson, 1949a, 1954, 1959; Dawson, Neushul & Wildman, 1960a  
Near Punta Eugenio, Baja Calif.; Gulf of Calif. from Guaymas to San Jose del Cabo
- Laurencia obtusiuscula* var. *corymbifera* Setchell & Gardner, prox.  
Taylor, 1945  
Galapagos Arch.
- Laurencia obtusiuscula* var. *laxa* Setchell & Gardner  
Dawson, 1959, 1954 (as *L. obtusiuscula*)  
Southern Gulf of Calif.
- Laurencia oppositoclada* Taylor  
Taylor, 1945  
Galapagos Arch.
- Laurencia pacifica* Kylin  
Smith, 1944; Dawson, 1954, 1959c  
Pacific Grove, Calif., to Isla Magdalena, Baja Calif.
- Laurencia paniculata* (C. Agardh) J. Agardh  
Dawson, 1954  
Bahía Gonzaga; Guaymas to Bahía Agua Verde, Gulf of Calif.
- Laurencia papillosa* var. *pacifica* Setchell & Gardner  
Dawson, 1954, 1959  
Isla Guadalupe; southern Gulf of Calif.
- Laurencia peninsularis* Taylor  
Dawson, 1954  
Cabo San Lazaro, Baja Calif.
- Laurencia richardsii* Dawson  
Dawson, 1954c  
Isla San Benedicto, Revillagigedo Arch.
- Laurencia scrippsensis* Dawson  
Dawson, 1954, 1954c  
La Jolla, Calif., to Isla Magdalena, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.

*Laurencia sinicola* Setchell & Gardner

Dawson, 1954, 1959  
Southern Gulf of Calif.

*Laurencia synderae* Dawson

Dawson, 1954, 1954a  
Santa Catalina I.; La Jolla, Calif.; Islas San Benito; Scammon Lagoon; Bahía Vizcaino, Baja Calif.

*Laurencia spectabilis* Postels & Ruprecht

Scagel, 1957; Dawson, 1959c  
Sitka, Alaska, to northern Santa Barbara Co., Calif.

*Laurencia splendens* Hollenberg

Smith, 1944; Dawson, 1954, 1959c; Dawson, Neushul & Wildman, 1960  
Santa Cruz, Calif., to Punta Baja, Baja Calif.

*Laurencia subdisticha* Dawson, Neushul & Wildman

Dawson, Neushul & Wildman, 1960a  
Islas San Benito, Baja Calif.; Isla Jicarón, Panamá

*Laurencia subopposita* (J. Agardh) Setchell

Dawson, 1944a, 1954; Dawson, Neushul & Wildman, 1960, 1960a  
La Jolla, Calif., to Punta Eugenio, Baja Calif.

*Laurencia turbinata* Setchell & Gardner

Setchell & Gardner, 1937  
Isla San Martín, Baja Calif.; Galapagos Arch.

*Laurencia voragina* Taylor

Dawson, 1954  
White Friars I., Guerrero

*Erythrocyctis saccata* (J. Agardh) Silva

Smith, 1944 (as *Ricardia saccata*); Silva, 1952; Dawson, 1954, 1954c  
Pacific Grove, Calif., to Isla Guadalupe, Baja Calif.; Isla San Benedicto, Revillagigedo Arch.

*Janczewskia gardneri* Setchell & Gardner

Dawson, 1954; Scagel, 1957  
Vancouver I., British Columbia, to Cabo Colnett, Baja Calif.

*Janczewskia lappacea* Setchell

Kylin, 1941; Dawson, 1954  
San Pedro, Calif., to Cabo Colnett, Baja Calif.

*Janczewskia moriformis* Setchell

Setchell, 1914  
Santa Monica, Calif.

*Janczewskia solmsii* Setchell & Guernsey

Dawson, 1954b, 1954  
Redondo to San Diego, Calif.; Isla Guadalupe, Baja Calif.

*Rhodomela larix* (Turner) C. Agardh

Okamura, 1933; Scagel, 1957; Dawson, 1958, 1959c  
Bering Sea to Government Point, Calif.

*Rhodomela lycopodioides* (Linnaeus) C. Agardh

Okamura, 1933; Scagel, 1957  
Aleutian I., Alaska, to northern Wash.

*Rhodomela macrantha* (Kützing) Setchell

Tokida, 1949  
Alaska; British Columbia

*Odonthalia aleutica* (Mertens) J. Agardh

Okamura, 1933  
Aleutian I., Alaska

*Odonthalia dentata* (Linnaeus) Lyngbye

Setchell & Gardner, 1903; Tokida, 1949  
Alaska to Victoria, British Columbia

*Odonthalia floccosa* (Esper) Falkenberg

Scagel, 1957  
Southern British Columbia to Pismo Beach, Calif.

*Odonthalia kamtschatica* (Ruprecht) J. Agardh

Scagel, 1957  
Alaska to Puget Sound, Wash.

*Odonthalia lyallii* (Harvey) J. Agardh

Okamura, 1933; Scagel, 1957  
Alaska to northern Wash.; Oreg. ?

*Odonthalia oregana* Doty

Doty, 1947  
Curry Co., Oreg.

*Odonthalia washingtoniensis* Kylin

Scagel, 1957

Hope I., British Columbia, to Coos Bay, Oreg.

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